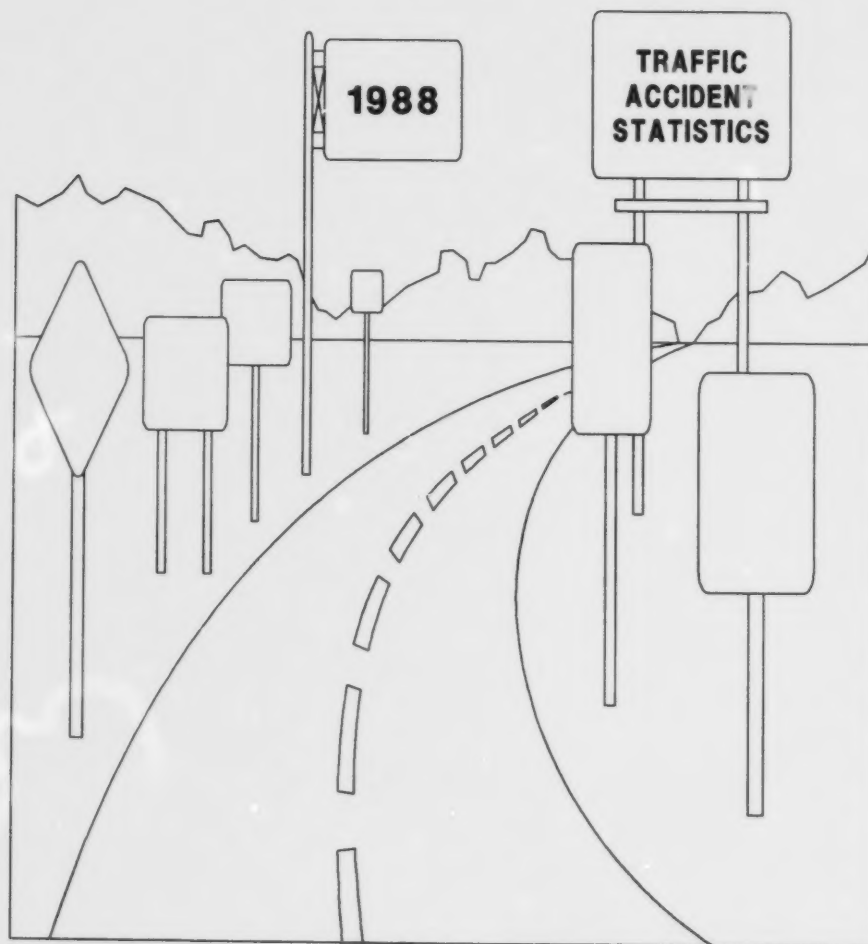


MINISTRY OF SOLICITOR GENERAL



MOTOR VEHICLE BRANCH

Main entry under title:

Traffic accident statistics. -- 1987-

Continues: British Columbia traffic accident
statistics. ISSN 0847-1509
ISSN 0847-1517

1. Traffic accidents - British Columbia - Statistics.
I. British Columbia. Motor Vehicle Branch.

HE5614.5.C2T72

363.125



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British Columbia

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Solicitor General

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FOREWORD

Traffic safety is my first priority as Solicitor General of British Columbia, and is a responsibility I share with all the citizens of this Province. My Ministry is committed to the development of new and innovative programming to reduce the unacceptable losses that are suffered every day on our roads and highways, in every region of our Province.

Traffic safety is everyone's responsibility. Each citizen shares the duty of making our roads safer. The effectiveness of any program that Government undertakes can be multiplied substantially if the citizens respond and work with us. Important components of this action are knowledge and awareness.

Publications such as this one will be of great benefit in increasing knowledge and raising public consciousness about the importance of traffic safety.

Reducing accidents, injuries, fatalities and the staggering costs associated with these tragedies is a challenge we must meet head on. I am confident that British Columbians can, and will, make meaningful contributions to the achievement of this goal.

Angus Ree
Solicitor General

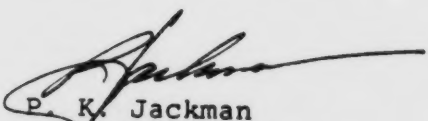
SUPERINTENDENT'S MESSAGE

Traffic accidents are the leading cause of death to persons under the age of thirty-four. Over 80% of these accidents are preventable - they are caused by human error. Driving without due care and failing to yield the right of way lead the list of accident causes, with alcohol the third highest contributing factor overall. Alcohol continues to be the major contributor to fatal accidents, and in 1988 was responsible for 197 deaths and 5,821 injuries.

Speed is also a significant factor. While speed may not be the most significant factor that caused an accident resulting in death or injury, speeding combined with one or more contributing factors results in increases in accident severity, or in some instances, is the underlying factor that created the accident picture.

Drinking driving and substance abuse are two important issues that government will be concentrating on in the coming months. The success of programs such as CounterAttack has done much to raise public awareness about the drinking driving problem, and has led to a decreasing proportion of alcohol related accidents over the last ten years. We intend to expand these efforts.

Motor vehicle accidents and their associated injuries and deaths affect every citizen. Education, training, experience and attitude together contribute to our own safety and the safety of others using the road systems. Hopefully, this report will play a part in raising awareness about both the risks and responsibilities associated with being a road user, and lead to an improved traffic safety record.



P. K. Jackman
Superintendent of
Motor Vehicles

MINISTRY OF SOLICITOR GENERAL
MOTOR VEHICLE BRANCH
1988 TRAFFIC ACCIDENT STATISTICS

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INTRODUCTION

TRAFFIC ACCIDENT SYSTEM

Overview

The Motor Vehicle Branch Traffic Accident System is designed to compile and maintain information on all reportable traffic accidents occurring in the Province of British Columbia. Traffic accident information is used by the Motor Vehicle Branch for compiling statistics to determine accident trends; for support of road user safety and driver improvement programs (both at the provincial and federal level); for monitoring of commercial vehicle accident trends and commercial vehicle safety programs; and for use by management in planning, development of new policies and programs and monitoring the effectiveness of existing programs.

Data extracted from this system is also used in research by provincial and federal government agencies, the Insurance Corporation of British Columbia, other jurisdictions, municipal engineering departments and by the R.C.M. Police and Municipal Police forces in the development of law enforcement priorities and programs.

Application

Motor vehicle accidents are reportable in British Columbia if they result in personal injury or death or aggregate property damage in excess of \$400. A motorist must report an accident to police within 24 hours of occurrence (48 hours in remote communities).

Police, in turn, forward a completed Police Investigation Report to the Motor Vehicle Branch within ten days for processing.

Reports are screened, microfilmed, input to the database, and stored on the host computer at B.C. Systems Corporation in hierarchical (FOCUS) format.

The Traffic Accident System interfaces with the Driver Licencing System. Selected information such as accident type, date of occurrence, location, and presence of alcohol involvement is passed to the Driver System to be included on an individual's driving record. Linkage is through the driver's licence number.

Reporting

The accident data is used to produce a variety of reports. Among these are monthly and quarterly accident and victim statistics; monthly and quarterly Police Data Package reports, which provide police with feedback on accident activity in their jurisdiction and assist in the performance of selective law enforcement priorities; and quarterly and annual Engineering Data Package reports to assist in the planning and design of municipal roadways.

Numerous statistics are produced for use in the Ministry's Annual Report as well as the annual Traffic Accident Statistics Report. All reports, including ad hoc reports, are generated using FOCUS, a fourth generation analysis and reporting language.

The statistics in this report, extracted March 22, 1988, are for the calendar year 1987. We hope that this publication will increase public awareness of the importance of safe driving practices and lead to improved traffic safety on our highways.

For information regarding this publication, and to receive additional copies, please contact:

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Sue Chamberlain

DEFINITIONS OF TERMS USED IN REPORTS

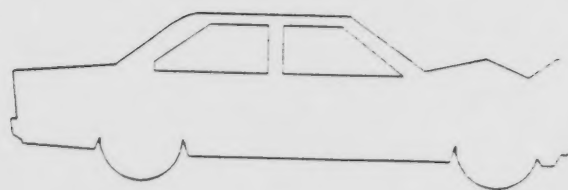
ACCIDENT	Event without apparent cause. Reportable in B.C. when injury or death occurs or when greater than \$400 aggregate property damage is sustained; in the case of a cycle when greater than \$25 in damage is sustained.
AIR BAG	Inflatable safety device usually stored in vehicle dashboard or steering wheel/column. Upon impact, bag is released and inflated to cushion vehicle occupants and prevent serious injury.
ALCOHOL INVOLVEMENT	Any alcohol involvement, suspected or confirmed, e.g., driver had been drinking; odor of liquor.
ARTIFICIAL GLARE	Glare caused by streetlight, headlights, or other man-made light source.
A.T.V.	All Terrain Vehicle: any type of vehicle propelled by motorized power and capable of travel on or off a highway as defined in the HIGHWAY ACT and that is designated as an All Terrain Vehicle by regulation under the ALL TERRAIN VEHICLES ACT.
BICYCLE	"Cycle B1/Tr1" 2 or 3 wheeled, pedal driven vehicle.
CHILD RESTRAINT	Federally approved child safety seat.
COMB. UNIT TRK/HY	Combination Unit - Truck/Heavy: truck and trailer unit over 10,900 kg.
COMB. UNIT TRK/LT	Combination Unit - Truck/Light: truck and trailer unit, trailer under 4,600 kg and total not over 10,900 kg.
COMB. UNIT TRACTOR TLR	Combination Unit - Tractor Trailer: tractor and semi-trailer unit, over 10,900 kg.
COMB. UNIT TRAC/TLR & PUP	Combination Unit - Tractor Trailer & Pup: tractor and semi-trailer and pup trailer (pup = 4 wheel trailer).
COMMERCIAL VEHICLE	A vehicle licenced as such under the COMMERCIAL TRANSPORT ACT and used primarily for commercial/business purposes.
CONSTRUCTION (Section 3)	Road maintenance, and/or construction on roadway which contributes to accident.
CRASH CUSHION	Water or sand filled container placed against abutments etc., used to absorb vehicle impact and lessen accident severity.

DRIVER TRAINING VEHICLE	Licensed driving school vehicle being used for driver training at time of accident.
EMERGENCY VEHICLE	Motor vehicle carrying rescue or first aid equipment, whether or not actually responding to an emergency at time of accident.
FARM VEHICLE	A vehicle used primarily as an implement of husbandry and licensed as such under the COMMERCIAL TRANSPORT ACT, e.g., farm tractor, combine, thresher.
FATAL ACCIDENT	Any motor vehicle or other road vehicle accident occurring on a 'public highway' as defined in the MOTOR VEHICLE ACT which results in fatal injuries to one or more persons and these persons are deceased within 30 days of the accident. A suicide, although not an "accident", is considered a fatal motor vehicle accident, however, a homicide, also not an "accident", is not considered a fatal motor vehicle accident.
GENERAL CONSTRUCTION VEHICLE	Backhoe, bulldozer, crawler, digger, excavator, forklift, loader, mower, skidder, trencher.
GOVERNMENT VEHICLE	Federal; Provincial; Municipal; Regional District: registration indicates government, but does not include emergency vehicles.
HEAVY COMMERCIAL VEHICLE	Single or combination truck unit over 10,900 kg.
HOLIDAY	Time period beginning at 6 p.m. the evening before a holiday or holiday weekend, and ending at midnight the last day of the holiday or holiday weekend.
ILLUMINATION	Man-made lighting in the accident vicinity, e.g., street lighting. This does not refer to temporary illumination which comes from passing vehicles or from moonlight, even if those may have contributed to the accident.
IMPACT ATTENUATOR	Refer to "Crash Cushion"
INDUSTRIAL ROAD	Any road which is constructed or exists for the transportation of natural resources, raw or manufactured, or the transportation of machinery, materials, or personnel by means of motor vehicles; includes all bridges, wharves, log dumps, and works. Does not include public roads, privately owned roads or roads used solely for construction or maintenance of power lines, etc.

JACK-KNIFING	Attached vehicle fails to follow path of towing vehicle. Vehicle and trailer turn or rise to 90 degrees or less.
LIGHTING CONDITIONS	DARK/FULL ILLUMINATION: dark condition but accident area is fully illuminated by artificial light. DARK/NO ILLUMINATION: complete darkness. DARK/SOME ILLUMINATION: dark condition but some artificial light exists.
MAJOR CONTRIBUTING FACTOR	Those circumstances or events that the attending police officer perceives to directly contribute to a traffic accident.
MODIFIED VEHICLE	A vehicle which deviates from manufacturer's specifications.
MOPED	Vehicle capable of being operated by pedals and is equipped with a motor under 50 cc (any class driver's licence or special class 6). Moped on flat surface not to exceed 50 km/h under power.
MOTOR VEHICLE	A motorized device in, upon, or by which a person or thing is, or may be transported or drawn upon a highway, except a device designed to be used exclusively upon stationary rails or tracks.
OBSTRUCTION/DEBRIS (Section 3)	Debris in travelled portion of roadway which contributes to traffic accident.
OVERSIZE VEHICLE	A vehicle more than 70 feet in length with width greater than 8 feet 6 inches, and height greater than 13 feet.
OFF HIGHWAY	Private place, field, bush, e.g., All Terrain Vehicles on private road indicated by signs.
PERSONAL INJURY ACCIDENT	Any motor vehicle or other road vehicle accident occurring on a 'public highway' as defined in the MOTOR VEHICLE ACT which results in injury but not death to one or more persons.
PRIMARY ACCIDENT OCCURRENCE	The key event of an accident.
PROPERTY DAMAGE ACCIDENT	Any motor vehicle or other road vehicle accident occurring on a 'public highway' as defined in the MOTOR VEHICLE ACT in which greater than \$400 aggregate property damage, or in the case of a cycle \$25 damage is sustained, but no injury or death occurs.

PUBLIC BUS	Any public transportation bus, city transit, B.C. Hydro, tourist bus.
RECREATIONAL VEHICLE	Vehicle used for personal use outside usual environment, e.g., vacation, sightseeing.
ROAD CONSTRUCTION VEHICLE	Grader, paver, roller.
SAFETY EQUIPMENT	Seatbelts, motorcycle helmets, airbags, child restraints.
SCHOOL BUS	A motor vehicle used for conveyance of children to and from school by or under contract with the authority in charge of the school.
SIGN OBSTRUCTION	Temporary sign erected on roadway; sign obstructed by trees, etc.
SINGLE UNIT TRUCK/HVY	Single Unit Truck/Heavy: single unit truck over 10,900 kg.
SINGLE UNIT TRK/LT	Single Unit Truck/Light: single unit truck up to 10,900 kg.
SPECIAL VEHICLES	Road construction vehicles, general construction vehicles, mobile home in transit, mobile crane.
VICTIM	A person involved in a motor vehicle or other road vehicle accident who is injured or killed.
VEHICLE	A device in, upon, or by which a person or thing is, or may be transported or drawn upon a highway, except a device designed to be moved by human power or used exclusively upon stationary rails or tracks.
YAW	Body of the vehicle is on an exaggerated lean to one side while continuing forward and wheels side slipping while rotating on the surface, forming angular striation on the highway surface.

SECTION 1



SUMMARY STATISTICS

1987 - 1988 COMPARATIVE STATISTICS

SUMMARY STATISTICS	1987	1988	% CHANGE
ACCIDENTS			
PROPERTY DAMAGE ONLY	84,630	101,277	+19.67
PERSONAL INJURY	29,194	30,935	+ 5.96
FATAL	542	535	- 1.29
TOTAL REPORTED ACCIDENTS	114,366	132,747	+16.07

VICTIMS			
NUMBER OF PERSONS INJURED	41,291	44,161	+ 6.95
NUMBER OF PERSONS KILLED	622	615	- 1.12
TOTAL VICTIMS	41,913	44,776	+ 6.83

DRIVERS			
LICENCED FEMALE DRIVERS	1,064,183	1,092,334	+ 2.65
LICENCED MALE DRIVERS	1,332,845	1,349,297	+ 1.23
TOTAL LICENCED DRIVERS	2,397,028	2,441,631	+ 1.86

VEHICLES			
LICENCED PASSENGER VEHICLES	1,627,935	1,681,597	+ 3.30
LICENCED COMMERCIAL VEHICLES	585,993	602,785	+ 2.87
LICENCED TRAILERS	265,431	271,098	+ 2.14
LICENCED MOTORCYCLES	76,807	66,055	-14.00
TOTAL VEHICLES LICENCED(during the year)	2,556,166	2,621,535	+ 2.56

1987 - 1988 COMPARATIVE STATISTICS

SUMMARY STATISTICS	1987	1988	% CHANGE
ACCIDENT RATES			
ESTIMATED B.C. POPULATION	2,960,900*	3,029,000**	+ 2.30
ACCIDENTS PER 100 LICENCED DRIVERS	4.77	5.44	- 1.85
ACCIDENTS PER 100 PEOPLE	3.86	4.38	+13.47
ACCIDENTS PER 100 LICENCED VEHICLES	4.47	5.06	+13.20

* Estimated as of March 3, 1988 (Statistics Canada).

**Estimated as of May 25, 1989 (Statistics Canada).

Note: Due to difficulties in obtaining the required information we are no longer calculating accident rates based on distance travelled (km).

1988 SUMMARY ACCIDENT FACTS

ACCIDENTS

- The number of reportable motor vehicle accidents recorded in British Columbia increased by 16.07% during 1988. There were 132,747 accidents this year, as compared to 114,366 in 1987.
 - Fatal accidents decreased by 1.29% to 535 from 542.
 - Injury accidents increased 5.96% from 29,194 to 30,935.
 - Property damage accidents rose 19.67% from the previous total of 84,630 to 101,277. This is the greatest number of property damage accidents ever reported in the Province.
- A motor vehicle accident occurred every 3.96 minutes in British Columbia in 1988.

FATALITIES

- Traffic fatalities decreased in 1988 for the first time in four years. A total of 615 deaths were recorded during the year, as opposed to 622 in 1987.
 - The greatest improvement was seen in the motorcyclist category; 47 fatalities in 1988 versus 64 in 1987 - a decrease of 35.94%;
 - Bicyclists killed decreased by 25.00%;
 - Drivers killed decreased by 11.20%;
 - Vehicle passengers killed decreased by 10.86%;
 - Pedestrians killed decreased by 7.22%.
- Thirty-three percent of all fatalities occurred during the months of June through August.
- The greatest number of fatalities recorded in any month was 69. This occurred in both July and August, accounting for approximately 22% of all persons killed during the year.
- Over 30% of the total fatalities occurred in alcohol-related accidents.

CASUALTIES

- Each day an average of 121 persons were injured in accidents, and one person was killed every 14 hours.
- Casualty rates were highest for persons between the ages of 16 - 20. Approximately 20% of all victims killed and injured were in this age group; 17% were between the ages of 21 and 25; approximately 2% were under the age of six.

SUMMARY ACCIDENT FACTS cont'd...

ALCOHOL INVOLVEMENT

- The incidence of alcohol involvement as a contributor to accidents continued to decrease in 1988.
- Alcohol involvement comprised 7.71% of all identified contributing factors assigned to accidents in 1988. This is a 1.5% decrease from the proportion recorded in 1987, and a 3.5% decrease from 1986 and 1985 rates.
- Despite a decreasing proportion of alcohol-related accidents overall, alcohol remains the primary cause of fatal accidents. Approximately 32% of all fatal accidents were attributed to alcohol.
- Thirty-two percent of all persons killed in motor vehicle accidents in 1988 were victims of drinking driving accidents.
- Alcohol was involved in 11.83% of all injury-producing accidents, but only 3.54% of the property damage crashes.
- Approximately 45% of all alcohol-related accidents resulted in injury or death.

CONTRIBUTING FACTORS

- Over 80% of the primary contributors to accidents were human action or human condition. Environmental condition comprised 16.48% and vehicle condition 2.44%.
- The most frequently reported contributing factors to accidents during 1988 were, in order of magnitude: driving without due care; failing to yield the right of way; alcohol involvement; backing unsafely; following too closely; driving at an unsafe speed; and weather conditions.

MOTOR VEHICLE TRAFFIC ACCIDENT FREQUENCIES - 1977 to 1988

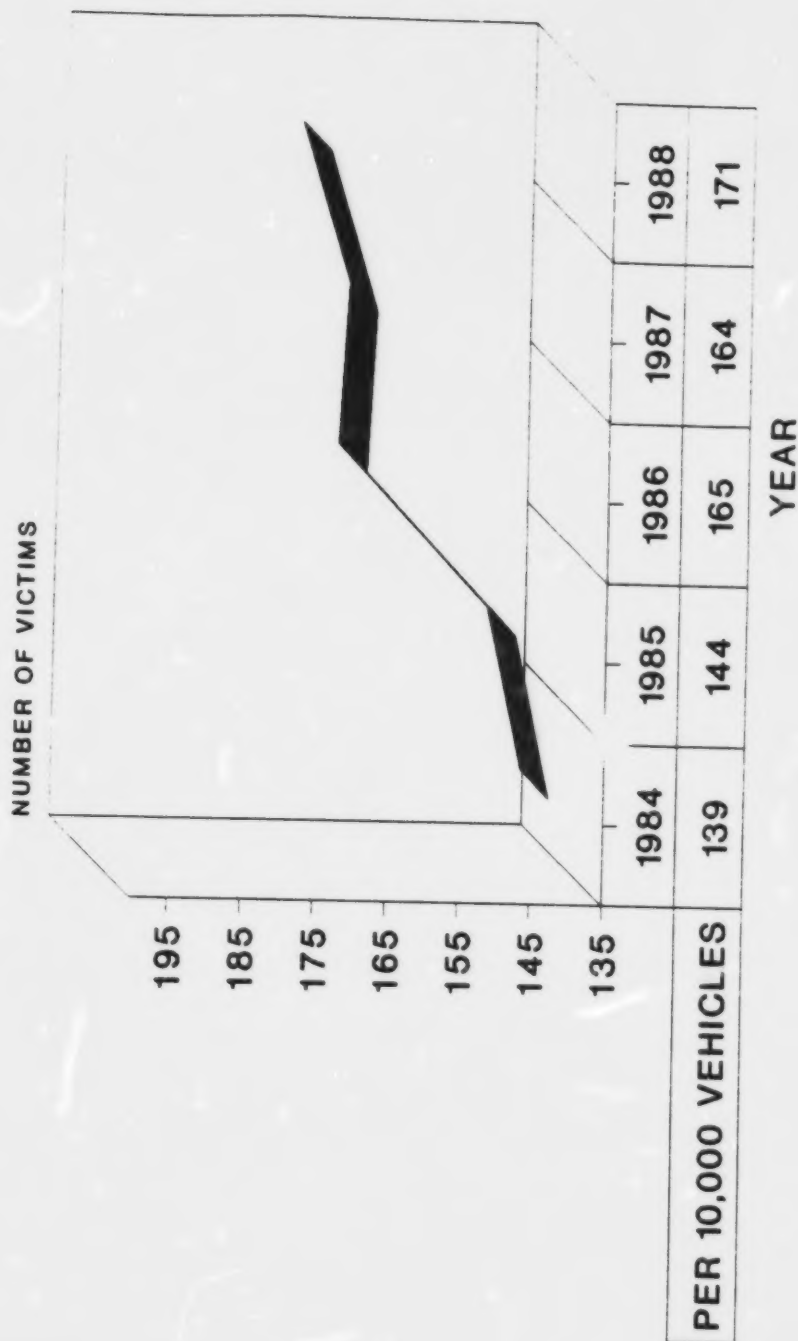
YEAR	TOTAL VEHICLES LICENCED DURING YEAR	NUMBER OF ACCIDENTS	ACCIDENTS PER 1,000 VEHICLES LICENCED	DEATHS	DEATHS PER 10,000 VEHICLES LICENCED	INJURIES	INJURIES PER 10,000 VEHICLES LICENCED
1977	not available	115,046	n/a	718	n/a	31,942	n/a
1978	not available	112,635	n/a	640	n/a	33,105	n/a
1979	not available	123,863	n/a	738	n/a	37,809	n/a
1980	not available	143,577	n/a	811	n/a	41,500	n/a
1981	not available	127,831*	n/a	859	n/a	44,123	n/a
1982	2,331,760	111,868*	47.98	601	2.58	33,807	144.98
1983	2,339,690	102,065*	43.62	607	2.59	31,855	136.15
1984	2,366,852	98,506*	41.62	525	2.22	32,407	136.92
1985	2,413,725	102,928*	42.64	483	2.00	34,368	142.39
1986	2,483,161	113,042*	45.52	599	2.41	40,378	162.61
1987	2,556,166	114,366*	44.74	622	2.43	41,291	161.53
1988	2,621,535	132,747*	50.64	615	2.35	44,161	168.45

In 1988 there were 535 fatal accidents in which 615 victims were killed. Also, during this year 44,161 victims were injured in 30,935 casualty producing accidents.

*The number of accidents occurring between 1981 and 1988 cannot be compared to previous years because the reporting level for property damage only accidents was raised January 1, 1981 from \$200.00 to \$400.00. This has significantly reduced the number of accidents reported since 1981.

The figures involving vehicles licenced were recalculated for all years in 1988, based on vehicles licenced throughout the year, as opposed to vehicles licenced at December 31.

ANNUAL TRAFFIC ACCIDENT CASUALTY RATE (1983 - 1988)



■ PER 10,000 VEHICLES

fig. 1

TRENDS IN PROVINCIAL ACCIDENT RATES BY LICENCED VEHICLES & LICENCED DRIVERS

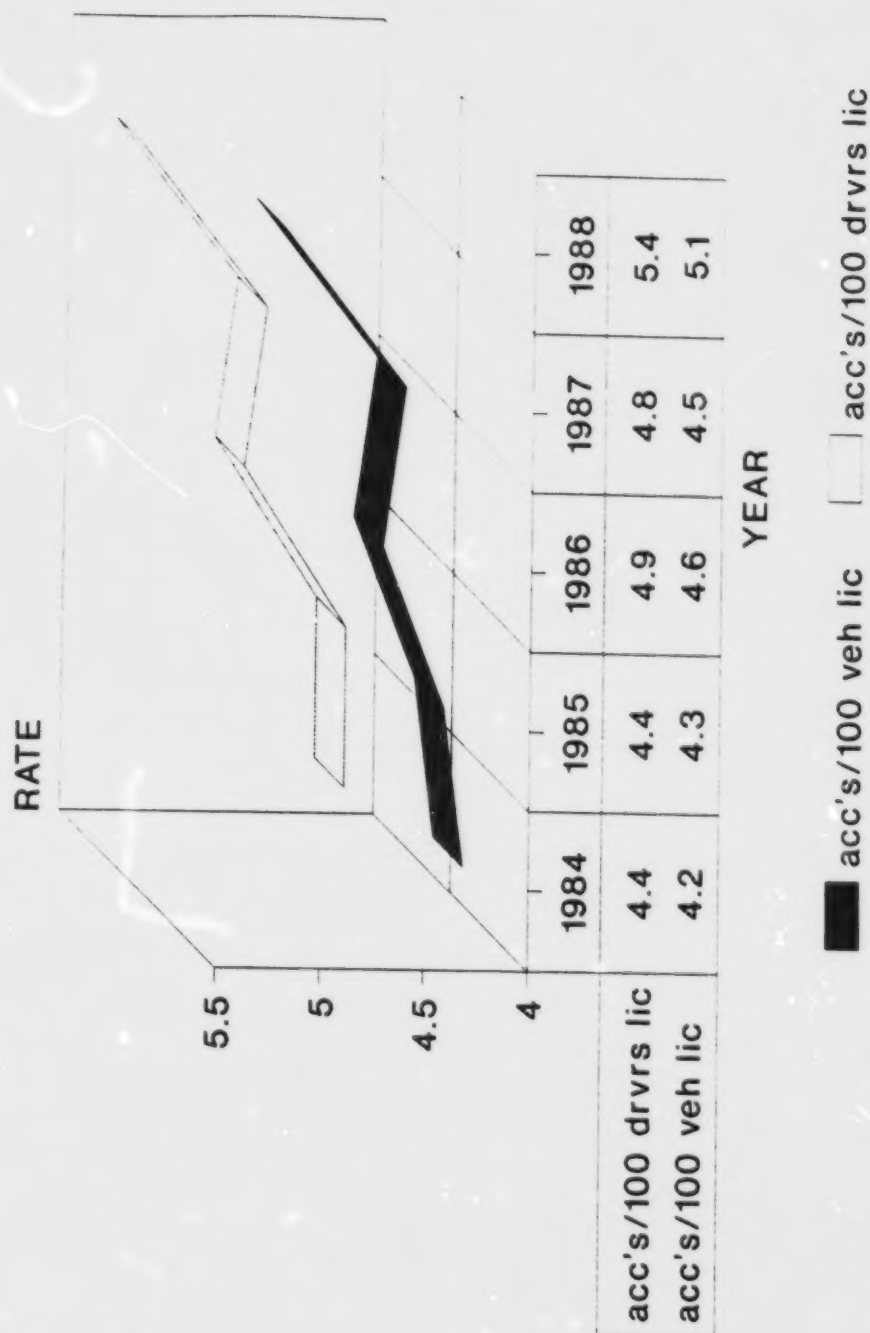
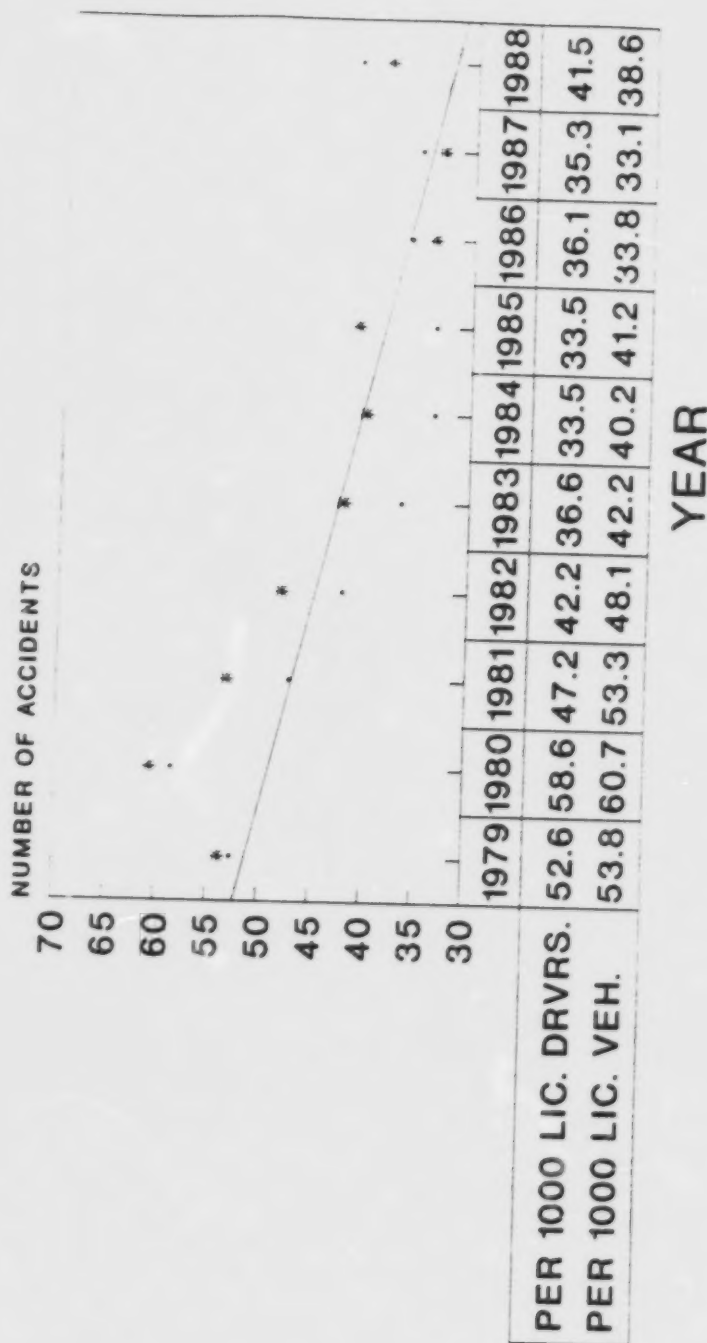


fig. 2

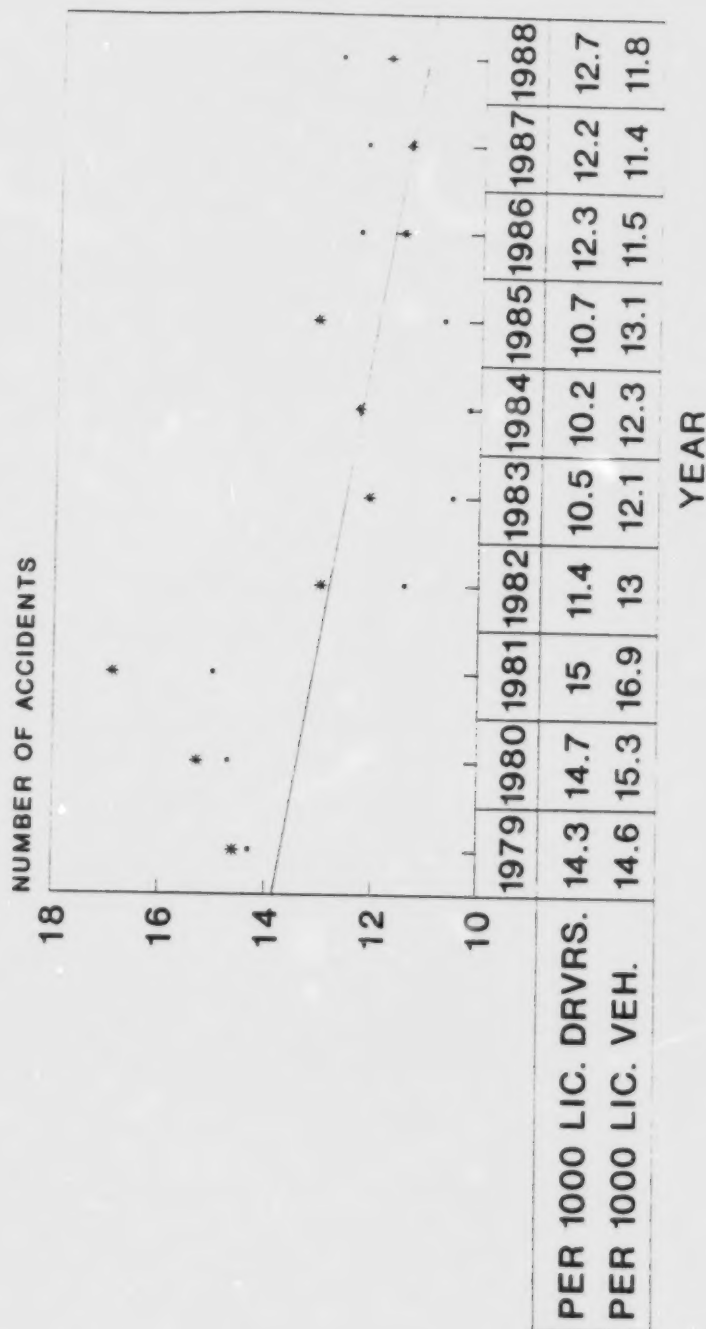
TEN YEAR ACCIDENT TREND PROPERTY DAMAGE ACCIDENTS



• PER 1000 LIC. DRVRS. * PER 1000 LIC. VEH.

fig. 3

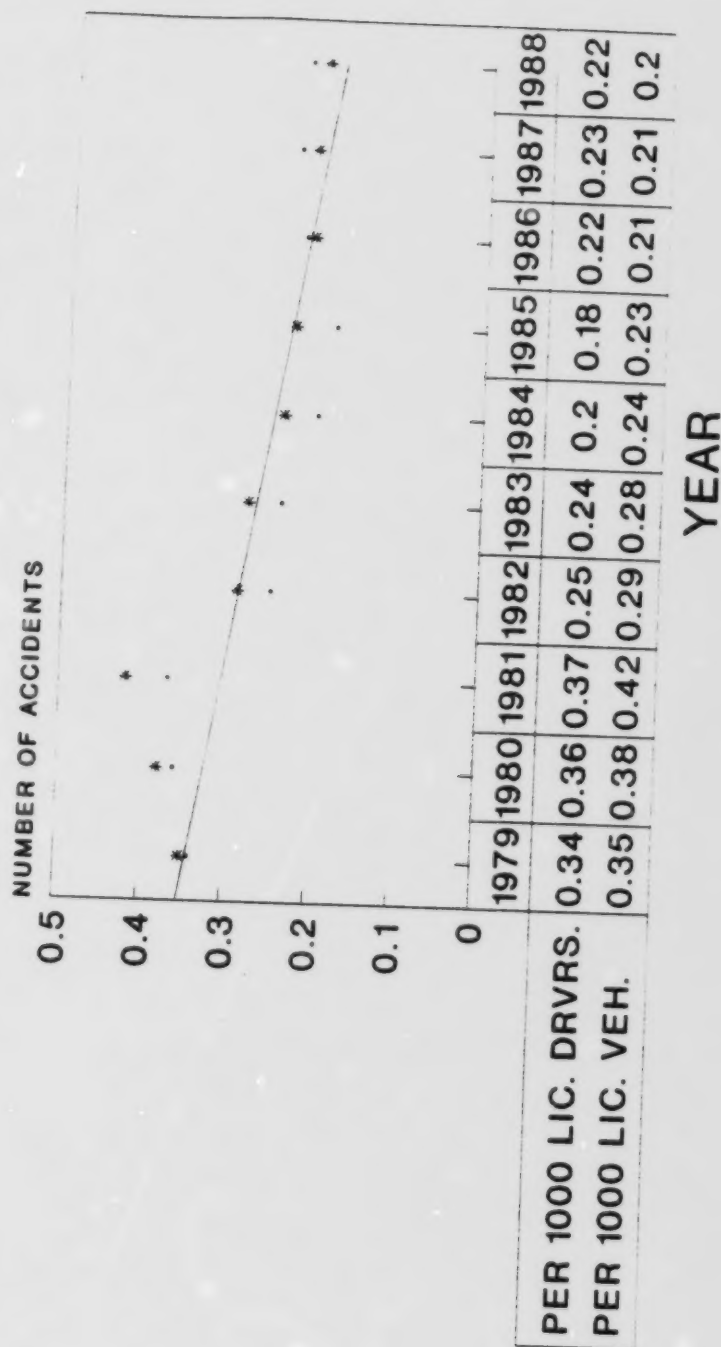
TEN YEAR ACCIDENT TREND PERSONAL INJURY ACCIDENTS



• PER 1000 LIC. DRVRs. * PER 1000 LIC. VEH.

fig. 4

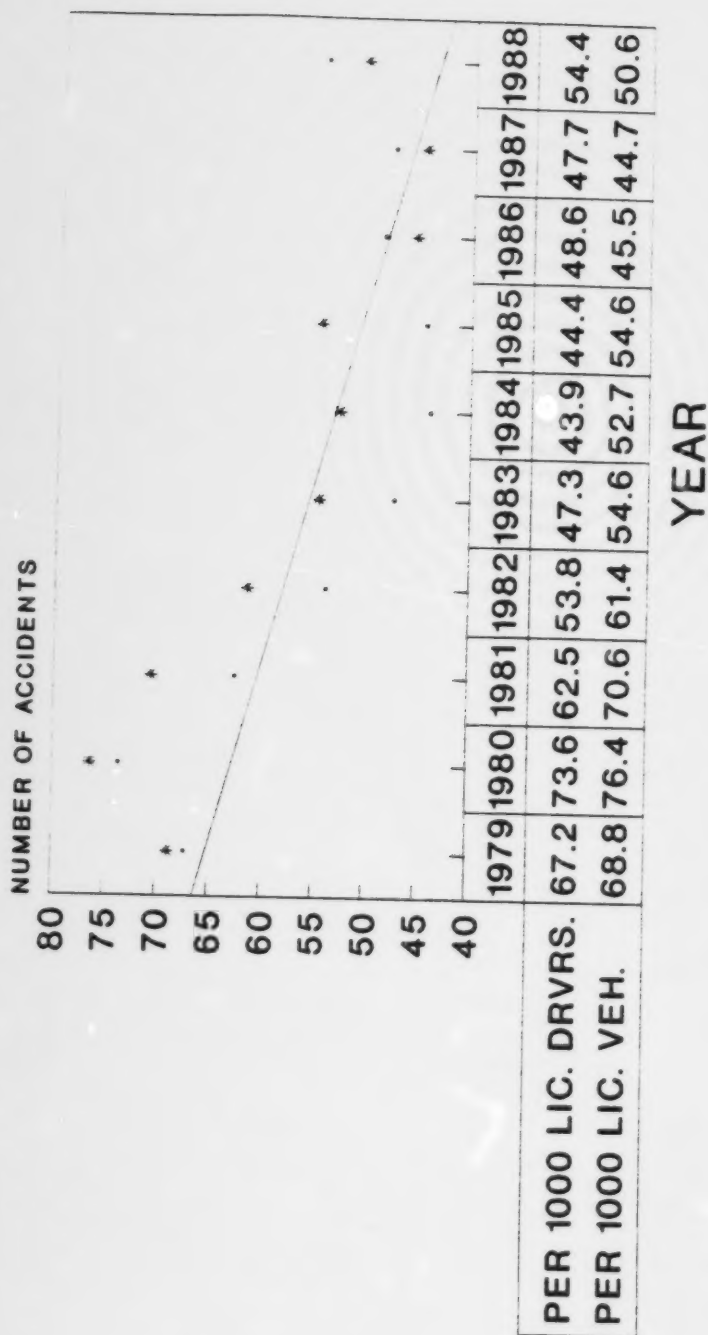
TEN YEAR ACCIDENT TREND FATAL ACCIDENTS



--- PER 1000 LIC. DRVRS. * PER 1000 LIC. VEH.

fig. 5

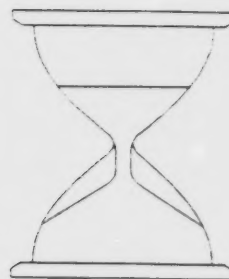
TEN YEAR ACCIDENT TREND ALL ACCIDENTS



— PER 1000 LIC. DRVRs. * PER 1000 LIC. VEH.

fig. 6

SECTION 2



TIME OF OCCURRENCE

1988 ACCIDENTS - TIME OF OCCURRENCE

The highest number of accidents in 1988 occurred during the month of December, while the greatest number of casualties was recorded in November. The casualty rate was 38.18 casualties per 100 accidents in November and dropped to 29.23 casualties per 100 accidents in February.

More accidents occurred on Fridays than any other day of the week, but the highest number of fatal accidents occurred on Saturdays. The peak day for personal injury and property damage only accidents was also Friday.

Twenty-three percent of all injury accidents occurred between 3 and 6 pm in 1988 while the peak time of day for fatal accidents was between 4 and 7 pm, when 21% of all fatal accidents occurred.

1988 ACCIDENTS AND VICTIMS BY MONTH

MONTH	ACCIDENTS				VICTIMS		
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL	TOTAL ACCIDENTS	INJURED	KILLED	TOTAL VICTIMS
JANUARY	8,023	2,276	33	10,332	3,204	41	3,245
FEBRUARY	7,901	2,075	30	10,006	2,894	31	2,925
MARCH	7,741	2,198	34	9,973	3,148	45	3,193
APRIL	7,498	2,298	40	9,836	3,280	48	3,328
MAY	7,679	2,485	44	10,208	3,515	46	3,561
JUNE	7,713	2,643	58	10,414	3,700	65	3,765
JULY	8,296	2,857	60	11,213	4,212	69	4,281
AUGUST	8,099	2,768	62	10,929	4,179	69	4,248
SEPTEMBER	8,431	2,773	42	11,246	3,972	48	4,020
OCTOBER	9,142	2,840	53	12,035	4,025	59	4,084
NOVEMBER	10,205	3,016	37	13,258	4,288	46	4,334
DECEMBER	10,549	2,706	42	13,297	3,744	48	3,792
TOTAL	101,277	30,935	535	132,747	44,161	615	44,776

DISTRIBUTION OF ACCIDENTS AND VICTIMS BY MONTH - 1988

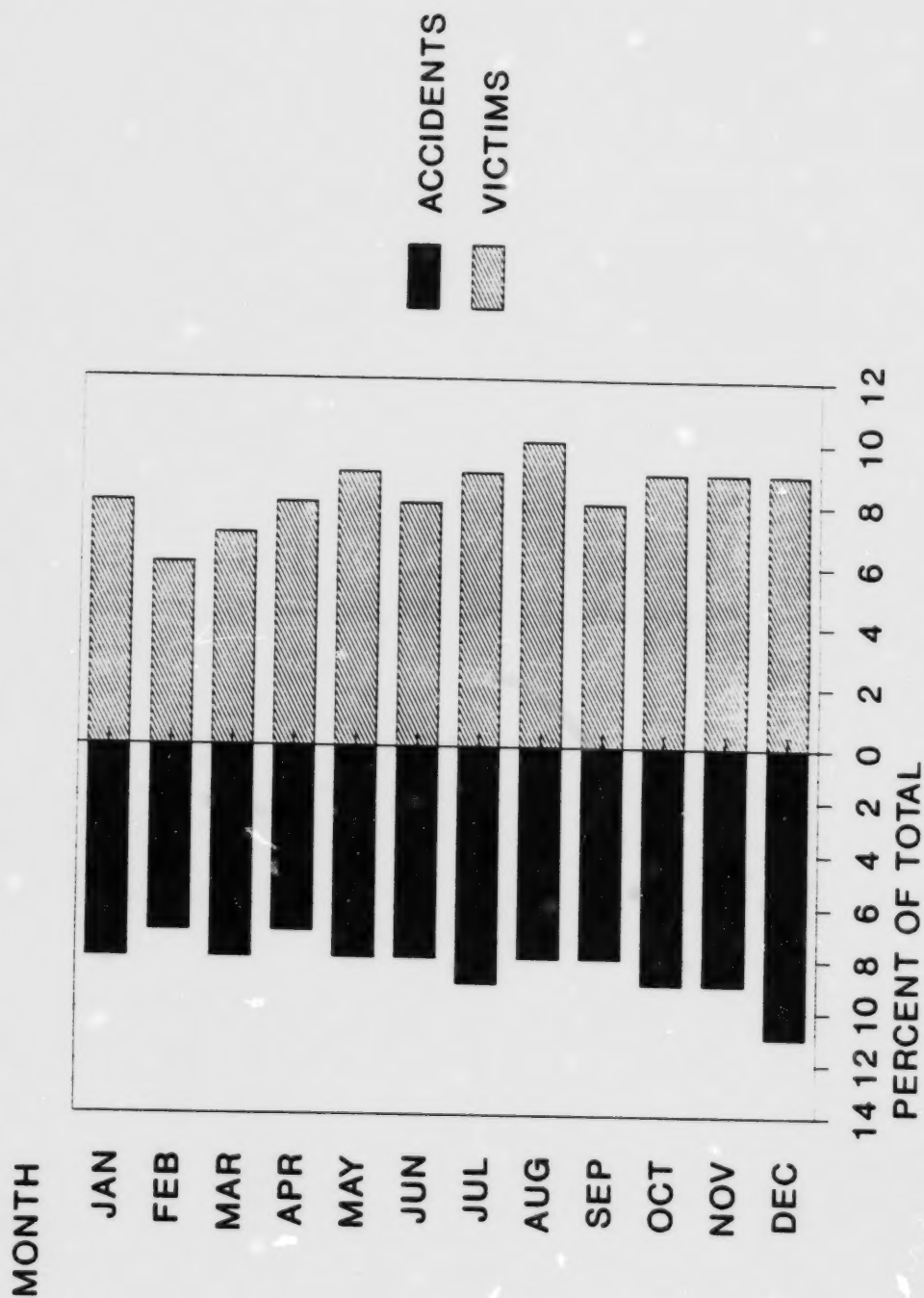


fig. 7

1988 ACCIDENTS BY DAY OF WEEK

DAY OF WEEK	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
SUNDAY	11,061	3,820	81	14,962	11.27
MONDAY	13,097	3,887	55	17,039	12.84
TUESDAY	14,608	4,378	71	19,057	14.36
WEDNESDAY	13,310	4,025	63	17,398	13.11
THURSDAY	14,401	4,286	84	18,771	14.14
FRIDAY	18,716	5,552	88	24,356	18.35
SATURDAY	16,084	4,987	93	21,164	15.94
TOTAL	101,277	30,935	535	132,747	100.00

**1987 PROPERTY DAMAGE ACCIDENTS BY DAY OF WEEK AND
ACCIDENT HOUR**

ACCIDENT HOUR	DAY OF WEEK							TOTAL PROPERTY DAMAGE ACCIDENTS
	SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
Mid. - 1 am	399	175	168	194	209	270	528	1,943
1 am - 2 am	485	113	145	166	188	272	595	1,964
2 am - 3 am	518	76	160	164	199	301	621	2,039
3 am - 4 am	310	49	86	82	90	169	359	1,145
4 am - 5 am	161	48	59	46	66	93	179	652
5 am - 6 am	134	78	69	65	81	97	129	653
6 am - 7 am	138	203	194	186	192	202	151	1,266
7 am - 8 am	159	482	515	417	409	449	243	2,674
8 am - 9 am	219	672	750	672	660	742	348	4,063
9 am - 10 am	322	596	672	565	552	588	470	3,765
10 am - 11 am	413	571	823	592	664	761	727	4,551
11 am - Noon	478	654	882	777	751	954	857	5,353
Noon - 1 pm	648	806	917	800	833	1,015	922	5,941
1 pm - 2 pm	593	744	856	777	843	1,100	913	5,826
2 pm - 3 pm	659	847	945	856	897	1,137	1,011	6,352
3 pm - 4 pm	652	1,082	1,141	1,057	1,114	1,342	1,017	7,405
4 pm - 5 pm	701	1,085	1,179	1,068	1,108	1,536	925	7,602
5 pm - 6 pm	635	981	998	891	1,054	1,283	918	6,760
6 pm - 7 pm	506	690	719	676	743	1,055	733	5,122
7 pm - 8 pm	468	465	533	575	696	844	654	4,235
8 pm - 9 pm	446	455	466	464	493	779	566	3,669
9 pm - 10 pm	366	417	397	411	519	837	574	3,521
10 pm - 11 pm	313	365	352	345	451	688	519	3,033
11 pm - Mid.	282	297	318	292	389	642	572	2,792
UNKNOWN	1,056	1,146	1,264	1,172	1,200	1,560	1,553	8,951
TOTAL	11,061	13,097	14,608	13,310	14,401	18,716	16,084	101,277

**1988 PERSONAL INJURY ACCIDENTS BY DAY OF WEEK AND
ACCIDENT HOUR**

ACCIDENT HOUR	DAY OF WEEK							TOTAL INJURY ACCIDENTS
	SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
Mid. - 1 am	194	58	70	67	93	107	226	815
1 am - 2 am	201	38	63	79	68	101	238	788
2 am - 3 am	220	26	56	69	67	107	253	798
3 am - 4 am	120	24	38	32	47	61	129	451
4 am - 5 am	76	23	19	23	24	40	83	288
5 am - 6 am	62	18	24	26	23	30	72	255
6 am - 7 am	66	67	70	60	71	92	77	503
7 am - 8 am	56	160	174	169	164	160	96	979
8 am - 9 am	82	236	269	270	208	251	104	1,420
9 am - 10 am	104	155	191	166	136	162	157	1,071
10 am - 11 am	153	134	227	152	168	204	204	1,242
11 am - Noon	154	194	263	206	193	242	238	1,490
Noon - 1 pm	197	218	276	221	236	309	265	1,722
1 pm - 2 pm	235	222	234	217	225	286	272	1,691
2 pm - 3 pm	218	280	271	271	276	305	311	1,932
3 pm - 4 pm	239	344	360	306	355	410	343	2,357
4 pm - 5 pm	248	398	368	386	357	504	285	2,546
5 pm - 6 pm	259	330	350	330	350	431	304	2,354
6 pm - 7 pm	193	241	241	232	252	317	235	1,711
7 pm - 8 pm	190	169	191	184	243	313	228	1,518
8 pm - 9 pm	161	128	172	142	157	274	216	1,250
9 pm - 10 pm	130	153	146	139	197	268	187	1,220
10 pm - 11 pm	107	115	133	111	184	250	162	1,062
11 pm - Mid.	96	93	113	102	125	230	216	975
UNKNOWN	59	63	59	65	67	98	86	497
TOTAL	3,820	3,887	4,378	4,025	4,286	5,552	4,987	30,935

**1988 FATAL ACCIDENTS BY DAY OF WEEK AND
ACCIDENT HOUR**

ACCIDENT HOUR	DAY OF WEEK							TOTAL FATAL ACCIDENTS
	SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
Mid. - 1 am	9	0	0	1	4	4	4	22
1 am - 2 am	6	2	5	2	2	2	10	29
2 am - 3 am	10	2	1	3	4	4	7	31
3 am - 4 am	6	0	2	0	1	6	6	21
4 am - 5 am	3	0	0	0	1	2	5	11
5 am - 6 am	4	1	2	2	1	1	4	15
6 am - 7 am	1	0	0	2	1	2	1	7
7 am - 8 am	0	3	4	2	3	1	0	13
8 am - 9 am	1	1	2	4	2	2	2	14
9 am - 10 am	1	0	4	1	2	2	3	13
10 am - 11 am	1	3	4	2	3	2	2	17
11 am - Noon	3	3	3	1	4	3	2	19
Noon - 1 pm	1	3	2	3	4	5	3	21
1 pm - 2 pm	2	0	4	5	4	2	3	20
2 pm - 3 pm	3	6	4	2	3	3	4	25
3 pm - 4 pm	4	5	5	5	3	1	2	25
4 pm - 5 pm	7	6	4	2	8	6	11	44
5 pm - 6 pm	4	4	5	6	2	3	4	28
6 pm - 7 pm	5	6	3	4	7	5	8	38
7 pm - 8 pm	2	2	2	1	8	3	2	20
8 pm - 9 pm	2	1	4	1	2	7	1	18
9 pm - 10 pm	2	2	5	5	4	9	3	30
10 pm - 11 pm	1	1	2	5	6	4	1	20
11 pm - Mid.	1	3	3	4	4	9	4	28
UNKNOWN	2	1	1	0	1	0	1	6
TOTAL	81	55	71	63	84	88	93	535

SECTION 3



MAJOR CONTRIBUTING FACTORS

1988 MAJOR CONTRIBUTING FACTORS

Contributing factors are those circumstances or events that the attending police officer perceives to directly contribute to a traffic accident. The Traffic Investigation Report permits up to three contributing factors or causes to be attributed to each vehicle or driver involved in an accident. These factors are listed in order of importance on the accident report.

The figures in this set of tables represent the first identified contributing factor for each driver/vehicle in those accidents for which the police have assigned a cause.

In 1988, 85,985 factors were identified as contributing to 132,747 traffic accidents. Approximately 35% of accidents were not assigned causal factors.

Over 80% of the factors identified were related to human action or human condition.

Major causes of accidents in 1988 were (1) driving without due care; (2) failing to yield right-of-way; (3) alcohol involvement; (4) backing unsafely; (5) following too closely; (6) driving at unsafe speed.

Alcohol was the major cause of fatal accidents, representing approximately 30% of the assigned factors. Although still the primary contributor to fatal accidents, the level of alcohol involvement is decreasing.

MAJOR CONTRIBUTING FACTORS IN 1988 ACCIDENTS
BY CATEGORY

CONTRIBUTING FACTOR CATEGORY	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
HUMAN ACTION	40,269	17,907	240	58,416	67.94
ENVIRONMENTAL CONDITION	11,033	3,105	36	14,174	16.48
HUMAN CONDITION	6,589	4,532	175	11,296	13.14
VEHICLE CONDITION	1,489	602	8	2,099	2.44
TOTAL	59,380	26,146	459	85,985	100.00

MAJOR CONTRIBUTING FACTORS IN 1988 MOTOR VEHICLE ACCIDENTS

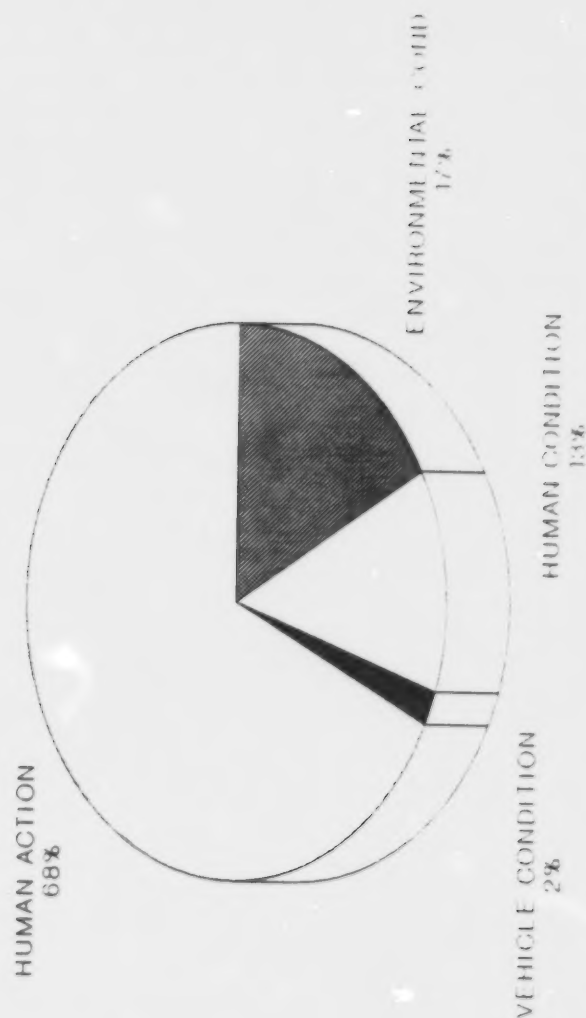


fig. 8

1988 ACCIDENTS WHERE HUMAN CONDITION WAS THE MAJOR CONTRIBUTING FACTOR

HUMAN CONDITION FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
ALCOHOL INVOLVEMENT	4,074	3,059	138	7,271	64.37
DRIVER INEXPERIENCE	1,967	886	8	2,861	25.33
FELL ASLEEP	243	305	21	569	5.04
FATIGUE	126	104	2	232	2.05
ILLNESS	46	59	1	106	0.94
UNCONSCIOUS	40	61	3	104	0.92
ILLEGAL DRUGS	29	31	0	60	0.53
PHYSICAL DISABILITY	43	15	2	60	0.53
MEDICATION (LEGAL DRUGS)	21	12	0	33	0.29
TOTAL	6,589	4,532	175	11,296	100.00

1988 ACCIDENTS WHERE HUMAN ACTION WAS THE MAJOR CONTRIBUTING FACTOR

HUMAN ACTION FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	10,492	5,268	76	15,836	27.11
FAILING TO YIELD RIGHT OF WAY	7,648	4,278	28	11,954	20.46
BACKING UNSAFELY	6,507	301	1	6,809	11.66
FOLLOWING TOO CLOSELY	3,929	2,595	2	6,526	11.17
DRIVING AT UNSAFE SPEED	3,981	2,382	72	6,435	11.02
IGNORING TRAFFIC CONTROL DEVICE	1,418	1,158	11	2,587	4.43
IMPROPER TURNING	1,547	428	4	1,979	3.39
CUTTING IN	1,313	270	0	1,583	2.71
AVOIDING VEH/PED/CYCLE	942	440	10	1,392	2.38
IMPROPER PASSING	867	273	7	1,147	1.96
DRIVERLESS VEHICLE	850	80	2	932	1.60
DRIVING ON WRONG SIDE OF ROAD	505	296	26	827	1.42
FAILING TO SIGNAL	230	68	0	298	0.51
PEDESTRIAN ERROR/ CONFUSION	22	48	0	70	0.12
IGNORING OFFICER/ FLAGMAN/GUARD	13	13	0	26	0.04
SUICIDE ATTEMPT	5	9	1	15	0.02
TOTAL	40,269	17,907	240	58,416	100.00

**1988 ACCIDENTS WHERE ENVIRONMENTAL CONDITION
WAS THE MAJOR CONTRIBUTING FACTOR**

ENVIRONMENTAL FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
WEATHER CONDITION	4,406	1,548	22	5,976	42.16
WILD ANIMAL	3,725	408	0	4,133	29.16
VISIBILITY IMPAIRED	647	338	4	989	6.98
DOMESTIC ANIMAL	575	140	1	716	5.05
OBSTRUCTION/DEBRIS ON ROAD	420	154	4	578	4.08
ROAD MAINTENANCE/ CONSTRUCTION	401	121	0	522	3.68
PAVEMENT CONDITION	193	94	0	287	2.02
SUNLIGHT GLARE	161	98	0	259	1.83
ROAD/INTERSECTION DESIGN	152	46	2	200	1.41
(RESULT OF) DIRECTLY PRECEDING ACCIDENT	116	66	1	183	1.29
ROADSIDE HAZARD	108	41	0	149	1.05
INSUFFICIENT TRAFFIC CONTROL	69	31	1	101	0.71
ARTIFICIAL GLARE	46	16	0	62	0.44
SIGN OBSTRUCTION	14	4	1	19	0.13
TOTAL	11,033	3,105	36	14,174	100.00

1988 ACCIDENTS WHERE VEHICLE CONDITION WAS THE MAJOR CONTRIBUTING FACTOR

VEHICLE DEFECT/FAILURE	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
BRAKES	424	191	3	618	29.44
TIRES	257	123	1	381	18.15
INSECURE LOAD	127	38	1	166	7.91
STEERING	104	47	0	151	7.19
ENGINE	103	37	0	140	6.67
ACCELERATOR	77	48	0	125	5.96
HEADLIGHTS	75	40	3	118	5.62
TOW HITCH	84	6	0	90	4.29
OVERSIZE VEHICLE	81	3	0	84	4.00
TURN SIGNALS	57	19	0	76	3.62
BRAKE LIGHTS	49	19	0	68	3.24
SUSPENSION	24	18	0	42	2.00
RESTRAINT SYSTEM	12	5	0	17	0.81
MODIFIED VEHICLE	13	3	0	16	0.76
WINDSHIELD	2	3	0	5	0.24
DANGEROUS GOODS	0	2	0	2	0.10
TOTAL	1,489	602	8	2,099	100.00

MAJOR CONTRIBUTING FACTORS IN 1988 ACCIDENTS
IN ORDER OF MAGNITUDE

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	10,492	5,268	76	15,836	16.79
FAILING TO YIELD RIGHT OF WAY	7,648	4,278	28	11,954	12.67
ALCOHOL INVOLVEMENT	4,074	3,059	138	7,271	7.71
BACKING UNSAFELY	6,507	301	1	6,809	7.22
FOLLOWING TOO CLOSELY	3,929	2,595	2	6,526	6.92
DRIVING AT UNSAFE SPEED	3,981	2,382	72	6,435	6.82
WEATHER CONDITION	4,406	1,548	22	5,976	6.34
WILD ANIMAL	3,725	408	0	4,133	4.38
DRIVER INEXPERIENCE	1,967	886	8	2,861	3.03
IGNORING TRAFFIC CONTROL DEVICE	1,418	1,158	11	2,587	2.74
IMPROPER TURNING	1,547	428	4	1,979	2.10
CUTTING IN	1,313	270	0	1,583	1.68
AVOIDING VEH/PED/CYCLE	942	440	10	1,392	1.48
IMPROPER PASSING	867	273	7	1,147	1.22
VISIBILITY IMPAIRED	647	338	4	989	1.05
NO DRIVER	850	80	2	932	0.99
OTHER	11,199	4,627	81	15,907	16.86
TOTAL	65,512	28,339	466	94,317	100.00

NOTE: "OTHER" includes factors with less than 900 occurrences.

MAJOR CONTRIBUTING FACTORS BY DRIVER AGE IN 1988 ACCIDENTS

CONTRIBUTING FACTORS	D R I V E R A G E												TOTAL FACTORS	% OF TOTAL
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40	41-50	51-60	61-70	OVER 70	UNKNOWN
DRIVING WITHOUT DUE CARE	67	564	827	855	799	745	2,411	1,649	2,319	1,322	871	700	605	2,102
FAILING TO YIELD														
RIGHT OF WAY	10	290	427	458	448	378	1,641	1,310	2,127	1,331	1,089	1,093	1,040	312
ALCOHOL INVOLVEMENT	14	73	155	278	339	351	1,554	1,314	1,478	640	308	155	54	558
BACKING UNSAFELY	14	196	213	214	204	166	796	688	1,221	771	528	392	272	1,134
FOLLOWING TOO CLOSELY														
UNSAFE SPEED	1	170	288	324	311	298	1,196	901	1,202	665	461	306	176	227
WEATHER CONDITION	22	265	419	517	471	382	1,334	814	1,013	472	281	162	77	206
WILD ANIMAL	2	116	205	242	240	206	1,036	875	1,314	786	470	260	115	109
DRIVER INEXPERIENCE	1	50	75	117	117	104	610	635	1,068	665	421	188	79	3
IGNORING TRAFFIC	94	601	462	311	201	143	366	194	216	102	63	43	37	28
CONTROL DEVICE	2	67	93	120	138	89	422	319	416	274	215	179	160	93
IMPROPER TURNING	1	48	73	67	73	57	254	222	361	227	206	148	131	111
CUTTING IN	3	43	56	52	56	45	193	169	261	179	137	134	75	179
AVOIDING VEH/PED/ CYCLE														
IMPROPER PASSING	1	22	61	76	52	69	277	196	269	173	105	47	25	19
IMPAIRED VISIBILITY	1	35	60	57	54	64	220	159	196	108	63	47	33	50
NO DRIVER	0	16	40	25	39	25	167	121	219	140	91	54	37	15
DRIVING ON WRONG SIDE OF ROAD	2	0	2	6	4	1	11	24	35	9	10	4	3	821
DOMESTIC ANIMAL	4	19	37	48	41	24	116	84	148	93	75	45	35	58
DEFECTIVE BRAKES	0	20	40	41	43	32	130	110	138	83	45	23	7	4
OTHER	0	13	21	21	31	27	109	83	88	58	42	20	13	92
	28	225	413	484	486	432	2,009	1,711	2,740	1,704	1,081	755	476	1,202
TOTAL	267	2,833	3,967	4,313	4,147	3,638	14,852	11,578	16,829	9,802	6,562	4,755	3,451	7,323
														94,317
														100.00

NOTE: This report represents first contributing factors attributed to drivers only - pedestrians are not included. "OTHER" includes those factors with less than 500 occurrences, as well as those unspecified factors not recorded in reports 3.1 to 3.5.

2 YEAR COMPARISON OF MAJOR CONTRIBUTING FACTORS IN FATAL ACCIDENTS

CONTRIBUTING FACTORS	1987		1988	
	TOTAL FACTORS	PERCENT OF TOTAL	TOTAL FACTORS	PERCENT OF TOTAL
ALCOHOL INVOLVEMENT	172	30.07	138	29.61
DRIVING WITHOUT DUE CARE	84	14.68	76	16.31
DRIVING AT UNSAFE SPEED	81	14.16	72	15.45
FAILING TO YIELD RIGHT OF WAY	33	5.77	28	6.01
WEATHER	18	3.15	22	4.72
IGNORING TRAFFIC CONTROL DEVICE	15	2.62	11	2.36
AVOIDING VEH/PED/CYCLE	5	0.87	10	2.15
DRIVER INEXPERIENCE	9	1.57	8	1.72
IMPROPER PASSING	6	1.06	7	1.50
IMPROPER TURNING	5	0.88	4	0.86
VISIBILITY IMPAIRED	3	0.52	4	0.43
FOLLOWING TOO CLOSELY	3	0.52	2	0.21
BACKING UNSAFELY	2	0.36	1	17.81
OTHER	136	23.77	83	7.62
TOTAL	572	100.00	466	100.00

NOTE: In 1988 466 contributing factors were identified as contributing to 535 fatal traffic accidents.

In 1987 572 contributing factors were identified as contributing to 542 fatal traffic accidents.

TOP TEN MAJOR CONTRIBUTING FACTORS IN 1988 ACCIDENTS

MAJOR CONTRIBUTING FACTORS

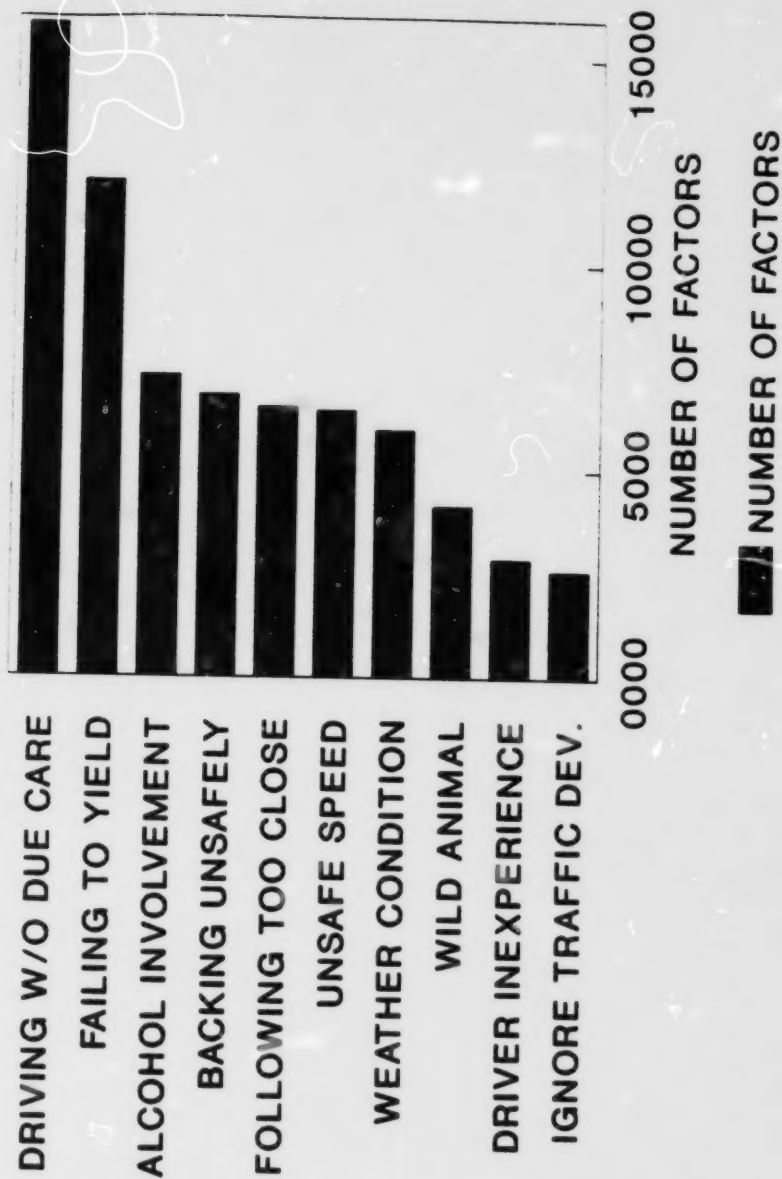
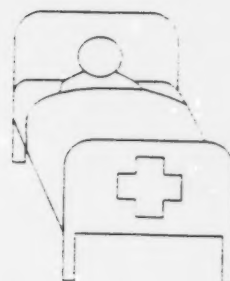


fig. 9

SECTION 4



VICTIMS

VICTIMS IN 1988 ACCIDENTS

The number of persons killed during 1988 decreased by 1% from 1987 while the number of persons injured increased by 7%.

Of the 44,776 victims injured and killed during 1988, 55% were male and 45% female. Less than 1% were unidentified as to sex.

Seventy-one percent of all fatal victims were male, 29 percent were female.

Twenty percent of all persons injured or killed were between the ages of 16 and 20; 16% were between the ages of 21 and 25. Approximately 2% were under the age of 6.

Forty-five percent of the fatal victims in 1988 were drivers; 25% were passengers in a motor vehicle; 15% pedestrians; bicyclists comprised 4%; motorcycle drivers and passengers made up 8%.

Motorcycle drivers killed decreased by 23% while motorcycle passengers killed decreased by 75%.

1988 INJURED VICTIMS BY ROAD USER CLASS BY MONTH

MONTH	ROAD USER CLASS							TOTAL VICTIMS	PERCENT OF TOTAL
	DRIVER	PASSENGER	PEDESTRIAN	BICYCLIST	MOTORCYCLE DRIVER	MOTORCYCLE PASSENGER	OTHER/ UNKNOWN		
JANUARY	1,825	1,060	219	61	29	3	7	3,204	7.26
FEBRUARY	1,684	882	194	64	50	9	11	2,894	6.55
MARCH	1,759	991	195	111	63	12	17	3,148	7.13
APRIL	1,764	1,059	152	145	127	19	14	3,280	7.43
MAY	1,859	1,071	168	206	163	26	22	3,515	7.96
JUNE	1,897	1,055	198	266	237	26	21	3,700	8.38
JULY	1,990	1,455	179	260	272	43	13	4,212	9.54
AUGUST	1,937	1,479	175	259	267	51	11	4,179	9.46
SEPTEMBER	2,075	1,231	210	217	196	26	17	3,972	8.99
OCTOBER	2,246	1,266	220	158	101	18	16	4,025	9.11
NOVEMBER	2,485	1,340	290	105	50	6	12	4,288	9.71
DECEMBER	2,181	1,192	269	68	25	4	5	3,744	8.48
TOTAL	23,702	14,081	2,469	1,920	1,580	243	166	44,161	100.00

NOTE: PASSENGER includes those persons "hanging on" to a vehicle, (122 in 1988)
 BICYCLIST includes both drivers and passengers on a bicycle, (1,864 drivers; 56 passengers in 1988)

1988 INJURIES CLASSIFICATION

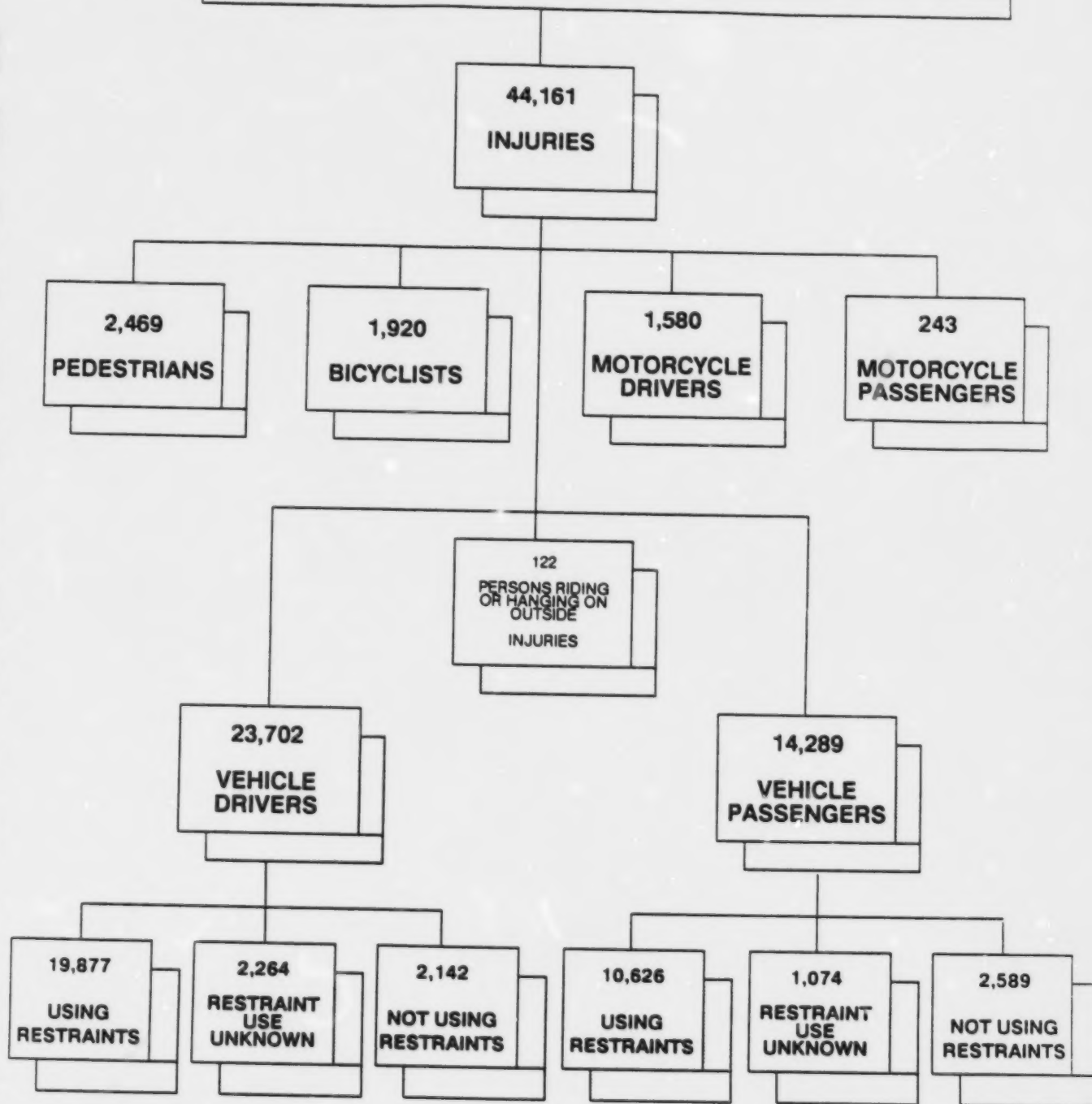


fig. 11

1988 FATAL VICTIMS BY ROAD USER CLASS BY MONTH

MONTH	ROAD USER CLASS							TOTAL VICTIMS	PERCENT OF TOTAL
	DRIVER	PASSENGER	PEDESTRIAN	BICYCLIST	MOTORCYCLE DRIVER	MOTORCYCLE PASSENGER	OTHER/ UNKNOWN		
JANUARY	23	9	9	0	0	0	0	41	6.67
FEBRUARY	14	8	6	0	1	0	2	31	5.04
MARCH	18	13	4	4	1	0	5	45	7.32
APRIL	17	11	7	1	8	1	3	48	7.80
MAY	23	13	3	2	5	0	0	46	7.48
JUNE	33	12	7	5	8	0	0	65	10.57
JULY	30	19	10	0	7	0	3	69	11.22
AUGUST	27	18	8	8	7	0	1	69	11.22
SEPTEMBER	14	14	9	5	5	0	1	48	7.80
OCTOBER	27	17	8	0	4	0	3	59	9.59
NOVEMBER	27	13	5	0	0	0	1	46	7.48
DECEMBER	25	9	14	0	0	0	0	48	7.80
TOTAL	278	156	90	25	46	1	19	615	100.00

NOTE: PASSENGER includes those persons "hanging on" to a vehicle, (3 in 1988)
 BICYCLIST includes both drivers and passengers on a bicycle, (25 drivers, 0 passengers in 1988)

1988 FATALITIES CLASSIFICATION

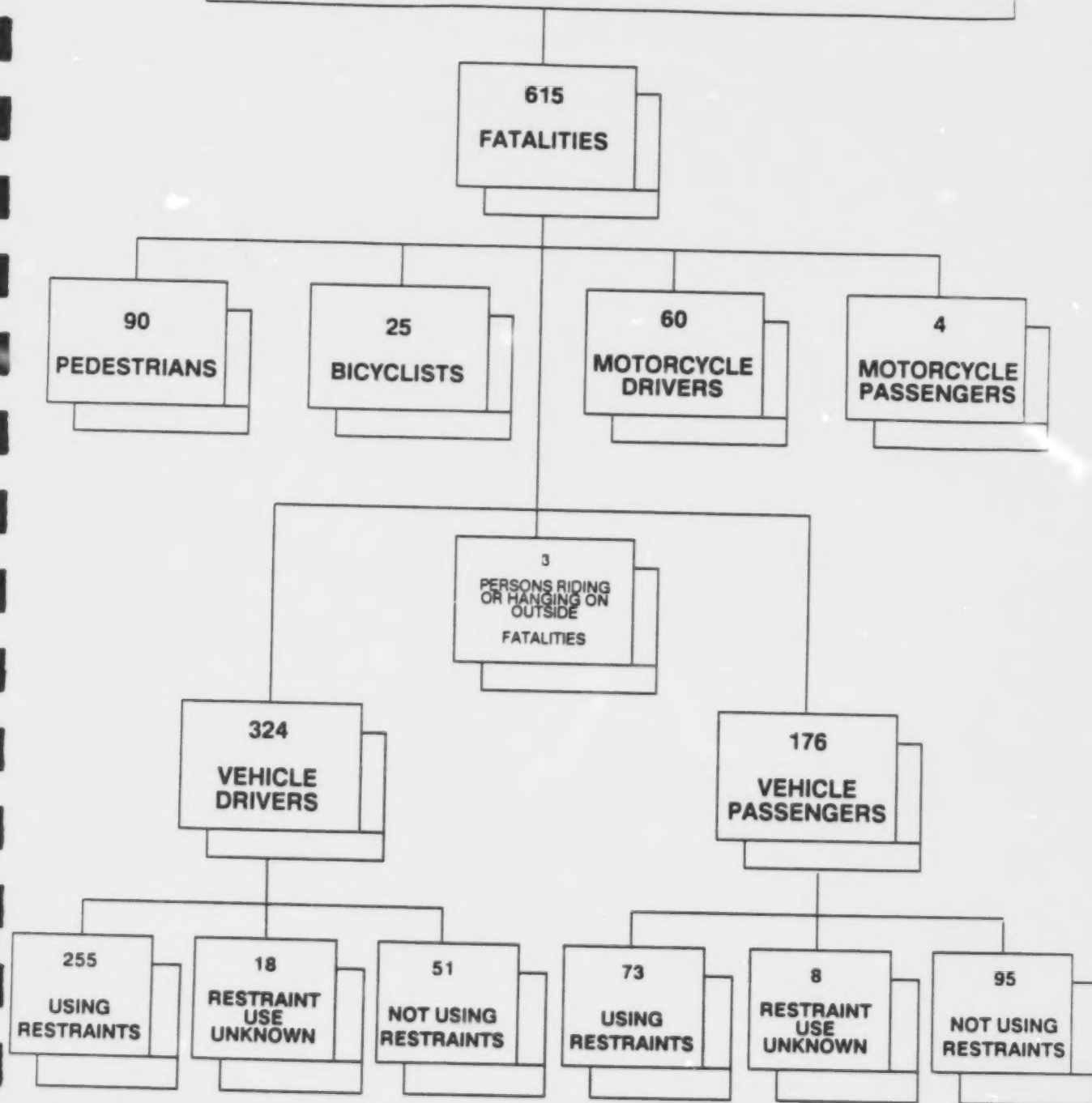


fig. 12

1988 VICTIMS INJURED BY ROAD USER CLASS BY AGE

VICTIM AGE	ROAD USER CLASS							TOTAL VICTIMS	PERCENT OF TOTAL
	DRIVER	PASSENGER	PEDESTRIAN	BICYCLIST	MOTORCYCLE DRIVER	MOTORCYCLE PASSENGER	OTHER/ UNKNOWN		
1	0	101	10	1	0	0	6	118	0.27
2	1	115	21	3	0	1	1	142	0.32
3	2	132	22	3	0	0	4	163	0.37
4	4	131	18	11	0	0	1	165	0.37
5	0	150	35	24	0	0	1	210	0.48
6 - 10	8	714	186	206	3	2	9	1,128	2.55
11 - 15	43	1,048	220	429	22	17	13	1,792	4.06
16	491	626	83	81	36	11	10	1,338	3.03
17	865	745	62	67	74	18	6	1,837	4.16
18	1,048	749	67	80	88	28	6	2,066	4.68
19	1,017	637	54	56	114	21	6	1,905	4.31
20	991	550	53	65	120	8	8	1,795	4.06
21 - 25	4,113	1,966	242	312	453	52	22	7,160	16.21
26 - 30	3,366	1,284	211	212	245	25	13	5,356	12.13
31 - 35	2,780	844	192	99	165	20	9	4,109	9.30
36 - 40	2,298	660	146	56	105	10	10	3,285	7.44
41 - 45	1,718	501	96	45	61	6	3	2,430	5.50
46 - 50	1,253	409	88	22	32	3	5	1,812	4.10
51 - 55	980	359	71	18	14	6	4	1,452	3.29
56 - 60	882	397	99	14	15	1	4	1,412	3.20
61 - 65	650	330	79	12	18	0	3	1,092	2.47
66 - 70	457	270	60	7	5	0	1	800	1.81
71 - 75	392	223	88	4	1	0	3	711	1.61
76 - 80	167	117	70	4	3	0	2	363	0.82
81 - 85	82	56	48	2	0	0	1	189	0.43
86 - 90	15	28	15	0	0	0	0	58	0.13
91 - 95	2	6	6	0	0	0	1	15	0.03
OVER 95	0	3	1	1	0	0	0	5	0.01
UNKNOWN	77	930	126	86	6	14	14	1,253	2.84
TOTAL	23,702	14,081	2,469	1,920	1,580	243	166	44,161	100.00

NOTE: PASSENGER includes those persons "hanging on" to a vehicle.
BICYCLIST includes both drivers and passengers on a bicycle.

1988 VICTIMS KILLED BY ROAD USER CLASS BY AGE

VICTIM AGE	ROAD USER CLASS							TOTAL VICTIMS	PERCENT OF TOTAL
	DRIVER	PASSENGER	PEDESTRIAN	BICYCLIST	MOTORCYCLE DRIVER	MOTORCYCLE PASSENGER	OTHER/ UNKNOWN		
1	0	2	2	0	0	0	4	8	1.30
2	0	1	0	2	0	0	0	3	0.49
3	0	0	1	1	0	0	0	2	0.33
4	0	0	1	0	0	0	0	1	0.16
5	0	0	0	0	0	0	0	0	0.00
6 - 10	0	4	2	5	1	0	0	12	1.95
11 - 15	0	7	2	7	1	0	3	20	3.25
16	4	5	0	0	1	0	0	10	1.63
17	10	9	1	1	3	0	0	24	3.90
18	9	4	1	0	2	0	1	17	2.76
19	14	14	2	0	4	0	0	34	5.53
20	7	3	2	0	5	1	1	19	3.09
21 - 25	48	24	6	4	7	0	2	91	14.80
26 - 30	42	14	5	0	14	0	4	79	12.85
31 - 35	25	9	0	0	1	0	2	37	6.02
36 - 40	15	4	6	0	5	0	0	30	4.88
41 - 45	20	14	3	1	2	0	0	40	6.50
46 - 50	9	6	4	0	0	0	0	19	3.09
51 - 55	18	2	4	1	0	0	0	25	4.07
56 - 60	15	7	4	0	0	0	1	27	4.39
61 - 65	13	4	3	1	0	0	0	21	3.41
66 - 70	11	7	8	1	0	0	0	27	4.39
71 - 75	3	7	6	1	0	0	0	17	2.76
76 - 80	8	5	11	0	0	0	1	25	4.07
81 - 85	4	2	9	0	0	0	0	15	2.44
86 - 90	2	2	6	0	0	0	0	10	1.63
91 - 95	1	0	1	0	0	0	0	2	0.33
OVER 95	0	0	0	0	0	0	0	0	0.00
UNKNOWN	0	0	0	0	0	0	0	0	0.00
TOTAL	278	156	90	25	46	1	19	615	100.00

NOTE: PASSENGER includes those persons "hanging on" to a vehicle.
BICYCLIST includes both drivers and passengers on a bicycle.

VICTIMS INJURED AND KILLED BY ROAD USER CLASS BY AGE

VICTIM AGE	ROAD USER CLASS							TOTAL VICTIMS	PERCENT OF TOTAL
	DRIVER	PASSENGER	PEDESTRIAN	BICYCLIST	MOTORCYCLE DRIVER	MOTORCYCLE PASSENGER	OTHER/ UNKNOWN		
1	0	103	12	1	0	0	10	126	0.28
2	1	116	21	5	0	1	1	145	0.32
3	2	132	23	4	0	0	4	165	0.37
4	4	131	19	11	0	0	1	166	0.37
5	0	150	35	24	0	0	1	210	0.47
6 - 10	8	718	188	211	4	2	9	1,140	2.55
11 - 15	43	1,055	222	436	23	17	16	1,812	4.05
16	495	631	83	81	37	11	10	1,348	3.01
17	875	754	63	68	77	18	6	1,861	4.16
18	1,057	753	68	80	90	28	7	2,083	4.65
19	1,031	651	56	56	118	21	6	1,939	4.33
20	998	553	55	65	125	9	9	1,814	4.05
21 - 25	4,161	1,990	248	316	460	52	24	7,251	16.19
26 - 30	3,408	1,298	216	212	259	25	17	5,435	12.14
31 - 35	2,805	853	192	99	166	20	11	4,146	9.26
36 - 40	2,313	664	152	56	110	10	10	3,315	7.40
41 - 45	1,738	515	99	46	63	6	3	2,470	5.52
46 - 50	1,262	415	92	22	32	3	5	1,831	4.09
51 - 55	998	361	75	19	14	6	4	1,477	3.30
56 - 60	897	404	103	14	15	1	5	1,439	3.21
61 - 65	663	334	82	13	18	0	3	1,113	2.49
66 - 70	468	277	68	8	5	0	1	827	1.85
71 - 75	395	230	94	5	1	0	3	728	1.63
76 - 80	175	122	81	4	3	0	3	388	0.87
81 - 85	86	58	57	2	0	0	1	204	0.46
86 - 90	17	30	21	0	0	0	0	68	0.15
91 - 95	3	6	7	0	0	0	1	17	0.04
OVER 95	0	3	1	1	0	0	0	5	0.01
UNKNOWN	77	930	126	86	6	14	14	1,253	2.80
TOTAL	23,980	14,237	2,559	1,945	1,626	244	185	44,776	100.00

NOTE: PASSENGER includes those persons "hanging on" to a vehicle.
BICYCLIST includes both drivers and passengers on bicycles.

1988 MOTOR VEHICLE ACCIDENT VICTIMS INJURED AND KILLED BY AGE AND SEX

VICTIMS INJURED				TOTAL INJURED
AGE	MALE	FEMALE	UNKNOWN	
1	67	51	0	118
2	88	54	0	142
3	90	72	1	163
4	95	70	0	165
5	120	90	0	210
6 - 10	613	513	2	1,128
11 - 15	940	851	1	1,792
16	717	621	0	1,338
17	1,070	767	0	1,837
18	1,199	865	2	2,066
19	1,151	754	0	1,905
20	1,070	724	1	1,795
21 - 25	4,365	2,795	0	7,160
26 - 30	3,130	2,224	2	5,356
31 - 35	2,291	1,816	2	4,109
36 - 40	1,738	1,544	3	3,285
41 - 45	1,237	1,193	0	2,430
46 - 50	882	929	1	1,812
51 - 55	746	706	0	1,452
56 - 60	718	694	0	1,412
61 - 65	506	586	0	1,092
66 - 70	351	449	0	800
71 - 75	324	386	1	711
76 - 80	157	206	0	363
81 - 85	102	87	0	189
86 - 90	24	34	0	58
91 - 95	11	4	0	15
OVER 95	1	4	0	5
UNKNOWN	572	602	79	1,253
TOTAL	24,375	19,691	95	44,161

VICTIMS KILLED			TOTAL KILLED
MALE	FEMALE	UNKNOWN	
1	5	2	8
1	2	0	3
1	1	0	2
1	0	0	1
0	0	0	0
9	3	0	12
15	5	0	20
6	4	0	10
19	5	0	24
16	1	0	17
25	9	0	34
15	4	0	19
72	19	0	91
60	19	0	79
24	13	0	37
29	1	0	30
25	15	0	40
14	5	0	19
20	5	0	25
18	9	0	27
15	6	0	21
15	12	0	27
10	7	0	17
10	15	0	25
8	7	0	15
4	6	0	10
1	1	0	2
0	0	0	0
0	0	0	0
434	179	2	615

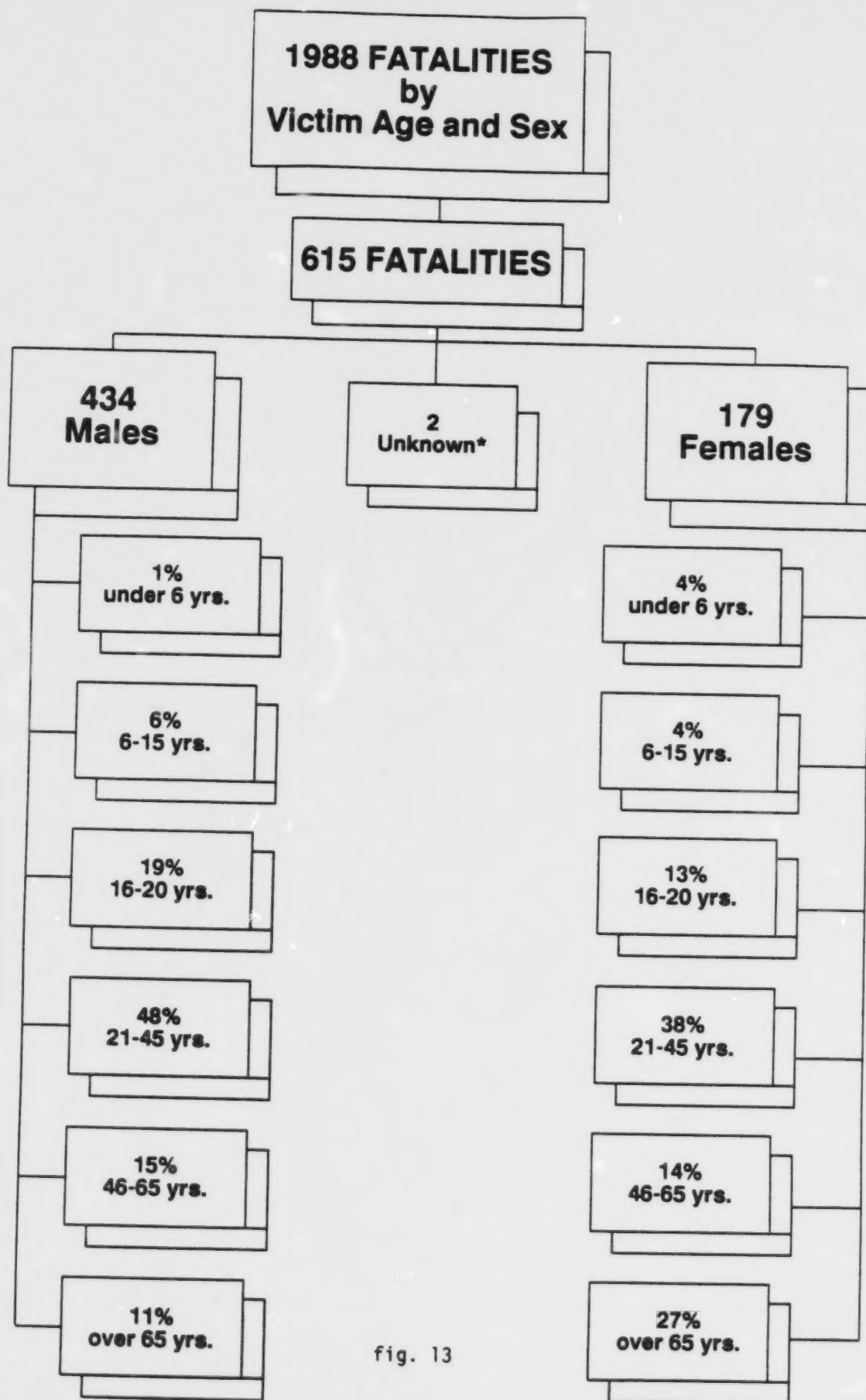


fig. 13

1988 VICTIMS BY DAY OF WEEK BY VICTIM AGE

VICTIM AGE	DAY OF WEEK							TOTAL VICTIMS
	SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
1	18	15	18	16	9	23	27	126
2	20	25	12	23	18	26	21	145
3	22	25	22	21	27	24	24	165
4	19	28	29	28	17	22	23	166
5	33	25	34	24	26	40	28	210
6 - 10	167	157	158	152	134	184	188	1,140
11 - 15	256	209	247	221	208	333	338	1,812
16	187	155	153	153	157	272	271	1,348
17	295	211	210	202	225	337	381	1,861
18	313	220	212	277	255	382	424	2,083
19	292	212	225	196	231	365	418	1,939
20	294	212	224	193	225	330	336	1,814
21 - 25	1,038	794	947	844	913	1,315	1,400	7,251
26 - 30	718	639	753	716	713	972	924	5,435
31 - 35	515	531	614	543	583	733	627	4,146
36 - 40	398	429	514	432	463	560	519	3,315
41 - 45	305	298	362	300	353	475	377	2,470
46 - 50	206	243	274	237	259	355	257	1,831
51 - 55	156	207	212	179	230	294	199	1,477
56 - 60	164	182	215	173	210	292	203	1,439
61 - 65	132	152	160	145	165	194	165	1,113
66 - 70	91	121	108	123	120	144	120	827
71 - 75	74	103	129	111	103	120	88	728
76 - 80	50	36	67	53	59	67	56	388
81 - 85	22	23	35	24	37	42	21	204
86 - 90	11	9	12	8	13	7	8	68
91 - 95	0	3	1	3	7	1	2	17
OVER 95	2	0	1	1	1	0	0	5
UNKNOWN	164	131	164	163	170	241	220	1,253
TOTAL	5,962	5,395	6,112	5,561	5,931	8,150	7,665	44,776

VICTIM AGE BY ACCIDENT HOUR FOR VICTIMS INJURED IN 1988 ACCIDENTS

ACCIDENT HOUR	V I C T I M A G E									
	UNK.	1-5	6-10	11-15	16	17	18	19	20	21-25
Mid. - 1 am	37	3	2	40	60	102	107	92	74	273
1 am - 2 am	37	6	5	34	52	70	102	82	73	305
2 am - 3 am	63	2	0	15	21	67	75	101	92	378
3 am - 4 am	31	2	2	15	18	39	58	63	57	191
4 am - 5 am	10	2	3	11	15	25	34	38	33	113
5 am - 6 am	13	1	0	7	8	24	14	26	37	106
6 am - 7 am	16	2	4	8	6	13	28	24	32	102
7 am - 8 am	22	8	14	34	21	30	50	54	53	230
8 am - 9 am	52	32	72	94	48	57	78	66	74	252
9 am -10 am	36	30	38	33	26	41	40	43	53	174
10 am -11 am	40	53	52	41	21	39	45	47	48	217
11 am - Noon	53	66	42	56	38	53	65	50	68	255
Noon - 1 pm	83	67	69	88	88	89	91	79	83	336
1 pm - 2 pm	53	71	79	91	48	62	86	78	79	361
2 pm - 3 pm	57	66	85	108	74	115	113	80	96	376
3 pm - 4 pm	95	80	156	187	111	134	138	125	111	399
4 pm - 5 pm	100	72	142	155	100	112	134	122	120	522
5 pm - 6 pm	92	67	109	178	84	125	143	146	115	498
6 pm - 7 pm	76	44	79	134	74	70	76	99	76	394
7 pm - 8 pm	58	49	60	114	71	109	114	98	88	354
8 pm - 9 pm	43	30	43	90	84	101	105	83	84	335
9 pm -10 pm	40	21	37	93	82	115	113	93	76	317
10 pm -11 pm	51	12	11	70	82	123	117	106	55	268
11 pm - Mid.	38	8	11	64	83	95	111	82	87	277
UNKNOWN	38	4	13	32	23	27	29	28	31	127
TOTAL	1,234	798	1,128	1,792	1,338	1,837	2,066	1,905	1,795	7,160

cont'd...

VICTIM AGE BY ACCIDENT HOUR FOR VICTIMS INJURED IN 1988 ACCIDENTS

cont'd

ACCIDENT HOUR	V I C T I M A G E							TOTAL INJURED	PERCENT OF TOTAL
	26-30	31-40	41-50	51-60	61-70	71-80	81+		
Mid. - 1 am	155	167	68	38	21	3	0	1,245	2.82
1 am - 2 am	180	158	62	24	7	4	1	1,207	2.73
2 am - 3 am	171	156	43	13	6	0	0	1,183	2.68
3 am - 4 am	89	76	23	18	2	2	1	685	1.55
4 am - 5 am	60	60	19	13	1	1	0	438	0.99
5 am - 6 am	58	46	17	15	1	0	0	367	0.83
6 am - 7 am	98	147	88	56	19	8	2	652	1.48
7 am - 8 am	189	292	144	93	33	16	4	1,292	2.93
8 am - 9 am	248	399	215	136	64	21	10	1,903	4.31
9 am - 10 am	193	314	191	112	86	54	7	1,468	3.32
10 am - 11 am	183	300	201	158	142	77	18	1,679	3.80
11 am - Noon	239	347	239	199	160	109	28	2,079	4.71
Noon - 1 pm	276	411	234	187	144	96	24	2,430	5.50
1 pm - 2 pm	256	428	250	173	173	95	24	2,419	5.48
2 pm - 3 pm	311	426	274	233	182	123	25	2,774	6.28
3 pm - 4 pm	350	529	347	227	176	103	36	3,291	7.45
4 pm - 5 pm	423	591	389	284	195	98	18	3,594	8.14
5 pm - 6 pm	359	600	361	225	142	64	21	3,315	7.51
6 pm - 7 pm	314	445	246	159	95	54	14	2,460	5.57
7 pm - 8 pm	261	355	196	144	77	41	12	2,210	5.00
8 pm - 9 pm	238	297	158	96	39	30	6	1,871	4.24
9 pm - 10 pm	202	318	173	91	48	26	5	1,855	4.20
10 pm - 11 pm	204	239	111	68	39	31	8	1,606	3.64
11 pm - Mid.	205	201	120	53	28	10	1	1,478	3.35
UNKNOWN	94	92	73	49	12	8	2	660	1.49
TOTAL	5,356	7,394	4,242	2,864	1,892	1,074	267	44,161	100.00

VICTIM AGE BY ACCIDENT HOUR FOR VICTIMS KILLED IN 1988 ACCIDENTS

ACCIDENT HOUR	V I C T I M A G E									
	UNK.	1-5	6-10	11-15	16	17	18	19	20	21-25
Mid. - 1 am	0	0	0	1	2	1	1	1	2	5
1 am - 2 am	0	0	0	0	2	3	5	2	3	6
2 am - 3 am	0	0	0	0	2	1	0	4	2	11
3 am - 4 am	0	0	0	2	0	0	0	4	0	6
4 am - 5 am	0	0	0	0	0	1	1	0	1	7
5 am - 6 am	0	0	0	0	0	0	0	3	0	6
6 am - 7 am	0	0	0	0	1	1	0	0	0	1
7 am - 8 am	0	0	0	0	0	3	1	0	0	1
8 am - 9 am	0	0	2	0	0	0	0	1	0	4
9 am - 10 am	0	0	0	3	0	0	2	0	0	1
10 am - 11 am	0	2	0	1	0	2	0	1	1	3
11 am - Noon	0	3	0	0	1	0	0	1	1	2
Noon - 1 pm	0	0	1	1	0	0	1	0	0	3
1 pm - 2 pm	0	1	0	0	0	0	0	2	0	1
2 pm - 3 pm	0	0	1	0	0	0	0	0	2	6
3 pm - 4 pm	0	3	2	1	0	2	0	1	0	0
4 pm - 5 pm	0	2	2	1	0	0	0	4	4	4
5 pm - 6 pm	0	1	2	4	0	1	2	0	0	2
6 pm - 7 pm	0	1	0	1	1	1	1	0	1	7
7 pm - 8 pm	0	0	1	1	0	1	1	0	0	2
8 pm - 9 pm	0	0	1	1	0	0	0	1	1	2
9 pm - 10 pm	0	1	0	2	0	2	2	1	1	3
10 pm - 11 pm	0	0	0	0	0	2	0	3	0	4
11 pm - Mid.	0	0	0	1	1	2	0	5	0	4
UNKNOWN	0	0	0	0	0	1	0	0	0	0
TOTAL	0	14	12	20	10	24	17	34	19	91

cont'd...

VICTIM AGE BY ACCIDENT HOUR FOR VICTIMS KILLED IN 1988 ACCIDENTS

cont'd...

ACCIDENT HOUR	V I C T I M A G E							TOTAL KILLED	PERCENT OF TOTAL
	26-30	31-40	41-50	51-60	61-70	71-80	81+		
Mid. - 1 am	5	6	2	1	1	0	1	29	4.71
1 am - 2 am	4	3	3	1	0	0	0	32	5.20
2 am - 3 am	5	2	2	1	1	0	0	31	5.04
3 am - 4 am	8	3	2	0	0	0	0	25	4.07
4 am - 5 am	2	0	1	0	0	0	0	13	2.11
5 am - 6 am	4	0	1	1	0	0	0	15	2.44
6 am - 7 am	2	0	1	1	1	0	0	7	1.14
7 am - 8 am	2	0	2	3	0	1	0	14	2.28
8 am - 9 am	1	0	1	0	4	1	1	15	2.44
9 am -10 am	5	1	4	2	1	5	0	24	3.90
10 am -11 am	2	4	2	2	1	2	1	24	3.90
11 am - Noon	2	6	0	3	2	0	2	22	3.58
Noon - 1 pm	2	0	5	2	4	1	1	22	3.58
1 pm - 2 pm	2	4	3	3	3	3	2	24	3.90
2 pm - 3 pm	0	1	5	3	4	1	3	26	4.23
3 pm - 4 pm	2	4	0	3	3	5	2	28	4.55
4 pm - 5 pm	4	2	2	6	8	6	2	47	7.64
5 pm - 6 pm	5	4	4	4	3	2	3	37	6.02
6 pm - 7 pm	6	6	3	6	3	5	1	43	6.99
7 pm - 8 pm	1	2	1	4	3	0	4	21	3.41
8 pm - 9 pm	0	4	3	1	0	5	1	20	3.25
9 pm -10 pm	4	3	8	2	4	1	0	34	5.53
10 pm -11 pm	5	4	0	0	0	3	2	23	3.74
11 pm - Mid.	5	4	4	3	2	1	1	33	5.37
UNKNOWN	1	4	0	0	0	0	0	6	0.98
TOTAL	79	67	59	52	48	42	27	615	100.00

VICTIMS IN 1988 HOLIDAY ACCIDENTS

HOLIDAY	VICTIM TYPE		TOTAL VICTIMS	PERCENT OF TOTAL
	INJURED	KILLED		
REMEMBRANCE DAY	570	8	578	14.93
B. C. DAY	508	15	523	13.51
CANADA DAY	478	10	488	12.60
LABOUR DAY	467	7	474	12.24
VICTORIA DAY	431	8	439	11.34
EASTER	429	2	431	11.13
THANKSGIVING	355	10	365	9.43
CHRISTMAS	298	2	300	7.75
NEW YEAR'S EVE/DAY	272	2	274	7.08
TOTAL	3,808	64	3,872	100.00

NOTE: New Year's Eve/Day is December 31, 1988 and January 1, 1989.

SECTION 5



PEDESTRIANS

—

1988 PEDESTRIAN INVOLVED ACCIDENTS

There were 2,496 pedestrians injured in traffic accidents in 1988, which is a 11% increase from 1987, and 90 pedestrians killed, an 8% decrease from the previous year.

The peak period of the day for pedestrian accidents is 4 to 7 pm during which time frame 25% of all injuries and fatalities occurred.

Although half of the pedestrian involved accidents occurred at intersections and half occurred at non-intersection locations, the fatality rate increased by approximately 48% at non-intersection locations. Thirty-seven pedestrians were killed at intersections while 55 were killed at non-intersection locations in 1988.

PEDESTRIANS INVOLVED IN 1988 ACCIDENTS BY LOCATION BY PEDESTRIAN ACTION AND ACCIDENT TYPE

PEDESTRIAN ACTION	AT INTERSECTION				NOT AT INTERSECTION			
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL	TOTAL	PROPERTY DAMAGE	PERSONAL INJURY	FATAL	TOTAL
CROSSING WITH NO SIGNAL, NO CROSSWALK	0	244	9	253	2	342	23	367
CROSSING AT MARKED CROSSWALK, NO SIGNAL	3	314	16	333	0	47	1	48
CROSSING WITH SIGNAL EMERGING FROM FRONT/BEHIND	4	351	1	356	0	8	0	8
PARKED VEHICLE	1	9	0	10	0	130	2	132
CROSSING AGAINST SIGNAL	1	107	5	113	0	14	1	15
WALKING WITH TRAFFIC	0	16	2	18	0	91	5	96
STANDING ON SIDEWALK	0	13	0	13	1	52	1	54
WALKING AGAINST TRAFFIC	0	12	1	13	0	42	3	45
PLAYING IN ROADWAY	0	7	0	7	0	39	1	40
WORKING IN ROADWAY	0	8	0	8	0	25	0	25
ADULT GETTING ON/OFF VEHICLE	0	0	0	0	0	25	2	27
PUSHING/WORKING ON A CAR	0	0	0	0	0	18	0	18
CHILD GETTING ON/OFF SCHOOL VEHICLE	0	2	0	2	0	14	1	15
OTHER	3	107	2	112	4	293	13	310
UNKNOWN	1	30	1	32	1	25	2	28
TOTAL	13	1,220	37	1,270	8	1,165	55	1,228

cont'd...

PEDESTRIANS INVOLVED IN 1988 ACCIDENTS BY LOCATION BY PEDESTRIAN ACTION AND ACCIDENT TYPE

cont'd...

PEDESTRIAN ACTION	UNKNOWN				TOTAL PEDESTRIANS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL	TOTAL		
CROSSING WITH NO SIGNAL, NO CROSSWALK	0	1	0	1	621	23.88
CROSSING AT MARKED CROSSWALK, NO SIGNAL	0	4	0	4	385	14.81
CROSSING WITH SIGNAL EMERGING FROM FRONT/BEHIND PARKED VEHICLE	0	1	0	1	365	14.04
CROSSING AGAINST SIGNAL	0	3	0	3	145	5.58
WALKING WITH TRAFFIC	0	0	0	0	128	4.92
STANDING ON SIDEWALK	0	0	0	0	114	4.38
WALKING AGAINST TRAFFIC	0	1	0	1	68	2.62
PLAYING IN ROADWAY	0	1	0	1	59	2.27
WORKING IN ROADWAY	0	2	0	2	49	1.88
ADULT GETTING ON/OFF VEHICLE	0	0	0	0	33	1.27
PUSHING/WORKING ON A CAR	0	0	0	0	27	1.04
CHILD GETTING ON/OFF SCHOOL VEHICLE	0	1	0	1	19	0.73
OTHER	0	0	0	0	17	0.65
UNKNOWN	1	21	0	22	444	17.08
	4	62	0	66	126	4.85
TOTAL	5	97	0	102	2,600	100.00

PEDESTRIAN INVOLVED ACCIDENTS PEDESTRIAN LOCATION BY ACCIDENT TYPE



fig. 14

1988 PEDESTRIAN INVOLVED ACCIDENTS BY DAY OF WEEK AND ACCIDENT HOUR

-PROPERTY DAMAGE ACCIDENTS ONLY-

ACCIDENT HOUR	DAY OF WEEK							TOTAL ACCIDENTS	PERCENT OF TOTAL
	SUN	MON	TUES	WED	THURS	FRI	SAT		
Mid. - 1 am	0	0	1	0	0	0	0	1	4.16
1 am - 2 am	0	0	0	0	0	0	0	0	0.00
2 am - 3 am	0	0	0	0	0	0	0	0	0.00
3 am - 4 am	0	0	0	0	0	0	0	0	0.00
4 am - 5 am	0	0	0	0	0	0	0	0	0.00
5 am - 6 am	0	1	0	0	0	0	0	1	4.16
6 am - 7 am	0	1	0	0	0	0	0	1	4.16
7 am - 8 am	0	0	0	0	0	1	0	1	4.16
8 am - 9 am	0	0	0	0	0	0	0	0	0.00
9 am - 10 am	0	0	0	0	0	1	0	1	4.16
10 am - 11 am	0	0	0	2	0	0	0	2	8.35
11 am - Noon	0	0	0	0	2	0	0	2	8.35
Noon - 1 pm	0	0	0	0	0	0	1	1	4.16
1 pm - 2 pm	0	0	0	0	0	0	0	0	0.00
2 pm - 3 pm	1	0	2	0	0	1	0	4	16.67
3 pm - 4 pm	0	2	0	0	0	0	0	2	8.35
4 pm - 5 pm	0	1	0	0	0	0	0	1	4.16
5 pm - 6 pm	0	0	0	0	0	1	0	1	4.16
6 pm - 7 pm	0	1	0	2	1	0	0	4	16.67
7 pm - 8 pm	0	0	0	0	0	0	0	0	0.00
8 pm - 9 pm	0	0	0	0	0	0	1	1	4.16
9 pm - 10 pm	0	0	0	0	1	0	0	1	4.16
10 pm - 11 pm	0	0	0	0	0	0	0	0	0.00
11 pm - Mid.	0	0	0	0	0	0	0	0	0.00
UNKNOWN	0	0	0	0	0	0	0	0	0.00
TOTAL	1	6	3	4	4	4	2	24	100.00

1988 PEDESTRIAN INVOLVED ACCIDENTS BY DAY OF WEEK AND ACCIDENT HOUR
-PERSONAL INJURY ACCIDENTS ONLY-

ACCIDENT HOUR	DAY OF WEEK							TOTAL ACCIDENTS	PERCENT OF TOTAL
	SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.		
Mid. - 1 am	10	4	6	7	8	10	15	32	1.37
1 am - 2 am	18	1	5	3	4	8	11	60	2.57
2 am - 3 am	15	3	2	3	4	6	22	50	2.14
3 am - 4 am	4	2	0	2	4	3	4	56	2.40
4 am - 5 am	3	1	0	0	1	1	3	19	0.81
5 am - 6 am	3	0	0	1	0	0	4	9	0.38
6 am - 7 am	0	4	6	4	9	2	0	8	0.34
7 am - 8 am	0	5	9	12	16	10	0	25	1.07
8 am - 9 am	1	20	27	19	15	15	1	52	2.23
9 am - 10 am	2	13	12	17	5	11	8	98	4.20
10 am - 11 am	11	10	15	8	13	11	9	68	2.91
11 am - Noon	7	12	16	21	16	16	16	77	3.30
Noon - 1 pm	8	21	23	15	17	29	18	104	4.46
1 pm - 2 pm	14	8	18	18	19	23	15	131	5.62
2 pm - 3 pm	12	18	25	35	28	16	13	115	4.93
3 pm - 4 pm	15	34	31	27	25	35	31	147	6.30
4 pm - 5 pm	11	37	28	27	23	45	14	198	8.49
5 pm - 6 pm	18	28	26	34	34	43	23	185	7.93
6 pm - 7 pm	13	21	25	27	28	31	21	206	8.84
7 pm - 8 pm	11	22	25	15	30	33	15	166	7.12
8 pm - 9 pm	10	14	17	12	14	20	19	151	6.48
9 pm - 10 pm	13	13	6	16	16	24	18	106	4.54
10 pm - 11 pm	8	9	14	14	20	17	15	106	4.54
11 pm - Mid.	3	4	6	8	8	20	15	97	4.16
UNKNOWN	5	6	1	6	2	7	5	64	2.74
TOTAL	216	310	343	351	359	436	315	2,330	100.00

1988 PEDESTRIAN INVOLVED ACCIDENTS BY DAY OF WEEK AND ACCIDENT HOUR

-FATAL ACCIDENTS ONLY-

ACCIDENT HOUR	DAY OF WEEK							TOTAL ACCIDENTS	PERCENT OF TOTAL
	SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.		
Mid. - 1 am	2	0	0	0	0	1	0	3	3.26
1 am - 2 am	1	0	1	1	1	0	0	4	4.35
2 am - 3 am	1	1	0	0	1	1	0	4	4.35
3 am - 4 am	0	0	0	0	0	1	0	1	1.09
4 am - 5 am	0	0	0	0	0	0	0	0	0.00
5 am - 6 am	0	0	0	0	0	0	0	0	0.00
6 am - 7 am	0	0	0	0	1	1	0	2	2.17
7 am - 8 am	0	0	0	0	0	1	0	1	1.09
8 am - 9 am	0	0	1	1	0	0	0	2	2.17
9 am - 10 am	0	0	2	0	0	0	0	4	4.35
10 am - 11 am	1	0	0	0	0	0	2	3	3.26
11 am - Noon	0	0	0	0	1	0	0	1	1.09
Noon - 1 pm	0	0	0	0	0	1	0	1	1.09
1 pm - 2 pm	0	0	1	1	1	1	0	4	4.35
2 pm - 3 pm	0	2	1	0	1	0	0	5	5.43
3 pm - 4 pm	1	1	1	1	1	0	0	5	5.43
4 pm - 5 pm	0	0	2	0	2	2	3	11	11.95
5 pm - 6 pm	1	0	0	1	1	2	2	6	6.52
6 pm - 7 pm	2	1	0	0	2	2	2	9	9.78
7 pm - 8 pm	1	0	0	1	0	0	0	1	1.09
8 pm - 9 pm	0	0	0	0	0	2	0	2	2.17
9 pm - 10 pm	0	1	2	0	1	3	1	9	9.78
10 pm - 11 pm	0	1	0	1	2	2	0	6	6.52
11 pm - Mid.	1	0	1	2	2	3	1	8	8.70
UNKNOWN	0	0	0	0	0	0	0	0	0.00
TOTAL	11	7	12	9	17	23	11	92	100.00

PEDESTRIAN INVOLVED ACCIDENTS BY DAY OF WEEK

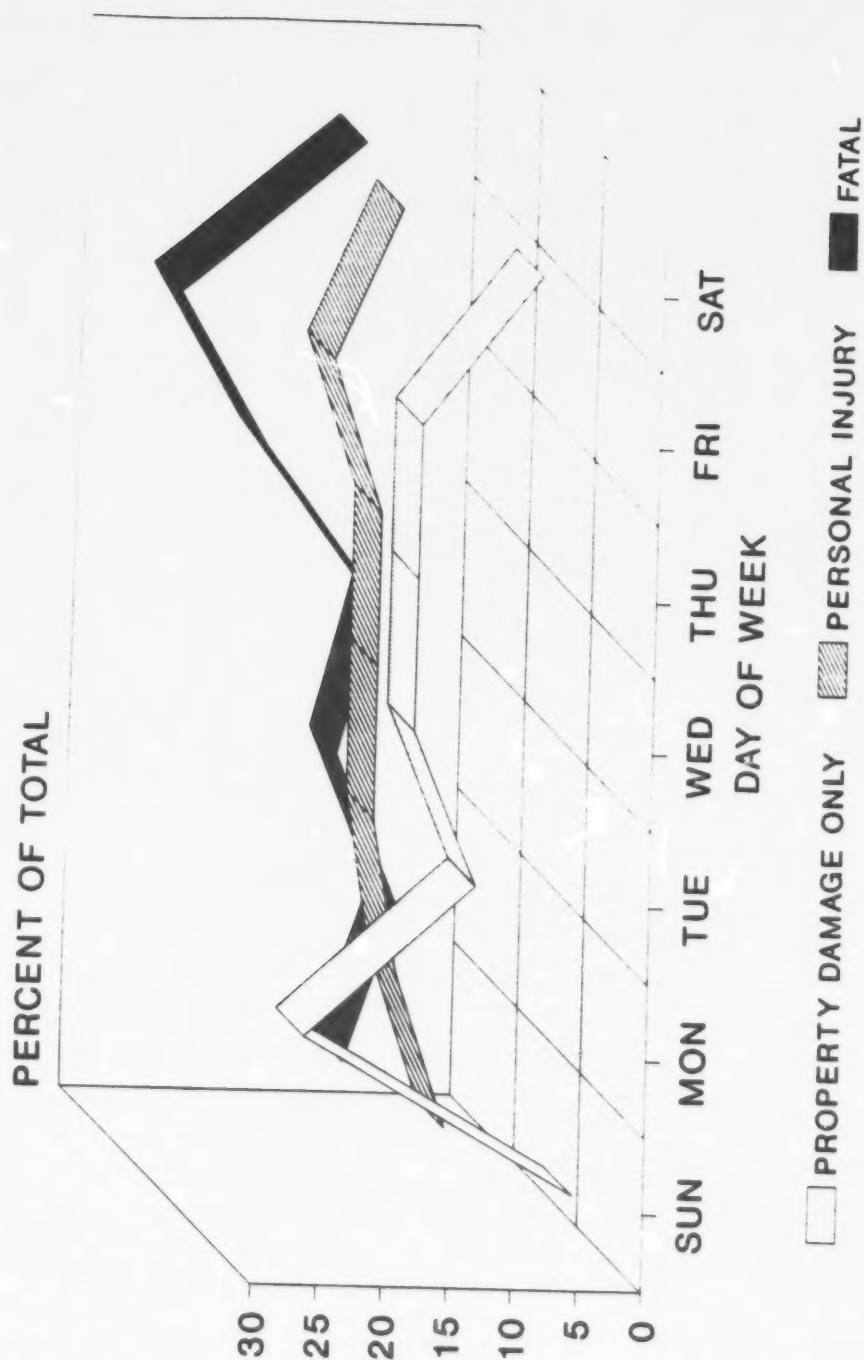


fig. 15

PEDESTRIANS INJURED BY ACCIDENT HOUR BY VICTIM AGE AND SEX IN 1988

ACCIDENT HOUR	UNKNOWN		1-5		6-10		11-15		16-20		21-25		26-30		31-40		41-50		51-60		61-70		OVER 70		TOTAL INJURED	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Mid.- 1 am	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	15
1 am- 2 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	18
2 am- 3 am	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	24
3 am- 4 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	10
4 am- 5 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1
5 am- 6 am	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2
6 am- 7 am	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	13
7 am- 8 am	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	34
8 am- 9 am	1	3	1	0	2	0	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	52	47
9 am- 10 am	1	1	1	0	2	0	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	35	34
10 am- 11 am	1	1	1	0	2	0	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	42	39
11 am- Noon	4	4	3	0	3	0	3	0	4	0	1	0	3	0	1	0	0	0	0	0	0	0	0	0	50	64
Noon - 1 pm	1	0	10	2	6	2	4	2	4	2	7	8	4	2	7	8	4	2	7	8	4	2	7	8	64	78
1 pm- 2 pm	1	3	6	4	6	4	6	4	5	10	6	6	4	5	10	6	6	4	5	10	6	6	4	5	52	63
2 pm- 3 pm	5	4	4	1	5	2	4	1	6	4	3	3	6	4	11	6	4	3	3	6	4	11	6	4	78	77
3 pm- 4 pm	3	3	5	1	3	0	5	1	3	0	2	2	3	0	3	0	2	2	3	0	3	0	2	2	109	101
4 pm- 5 pm	7	3	8	3	6	3	6	3	8	3	5	5	6	3	10	6	3	5	5	6	3	10	6	3	96	97
5 pm- 6 pm	6	6	9	2	11	8	6	3	15	19	7	10	5	4	16	9	7	6	7	8	6	11	8	7	108	109
6 pm- 7 pm	4	7	4	3	6	3	6	3	8	4	5	8	4	10	14	9	5	2	7	8	6	10	8	11	85	96
7 pm- 8 pm	3	6	11	4	5	4	5	4	6	4	6	4	6	4	8	4	11	4	8	4	9	4	8	10	86	69
8 pm- 9 pm	4	1	4	0	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	2	2	2	2	2	70	40
9 pm- 10 pm	6	3	0	1	2	2	4	4	15	11	7	7	6	4	10	5	4	2	3	1	3	1	3	1	66	53
10 pm- 11 pm	4	0	0	0	0	0	0	0	6	6	5	5	3	3	8	3	7	4	3	2	2	2	2	2	53	47
11 pm- Mid.	1	0	0	0	0	0	0	0	7	7	2	2	4	1	1	1	6	3	0	3	0	1	2	1	49	18
UNKNOWN	2	2	1	1	3	2	4	3	3	3	2	2	7	3	3	3	2	2	8	1	1	2	2	2	37	37
TOTAL	65	57	70	36	115	73	104	120	161	161	120	124	106	111	191	149	103	83	102	76	69	71	104	125	1,310	1,186

PEDESTRIANS KILLED BY ACCIDENT HOUR BY VICTIM AGE AND SEX IN 1988

ACCIDENT HOUR	UNKNOWN		1-5		6-10		11-15		16-20		21-25		26-30		31-40		41-50		51-60		61-70		OVER 70		TOTAL KILLED	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Mid.- 1 am	0	0	0	0	0	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3	0
1 am- 2 am	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
2 am- 3 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
3 am- 4 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
4 am- 5 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
5 am- 6 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 am- 7 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 am- 8 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 am- 9 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 am- 10 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
10 am- 11 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
11 am- Noon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Noon - 1 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1 pm- 2 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2 pm- 3 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3 pm- 4 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4 pm- 5 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5 pm- 6 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
6 pm- 7 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7 pm- 8 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8 pm- 9 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
9 pm- 10 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
10 pm- 11 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 pm- Mid.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	3	1	1	2	0	5	1	6	0	4	1	6	0	6	1	6	2	9	2	12	21	58	32

PEDESTRIAN INVOLVED ACCIDENTS BY ACCIDENT HOUR

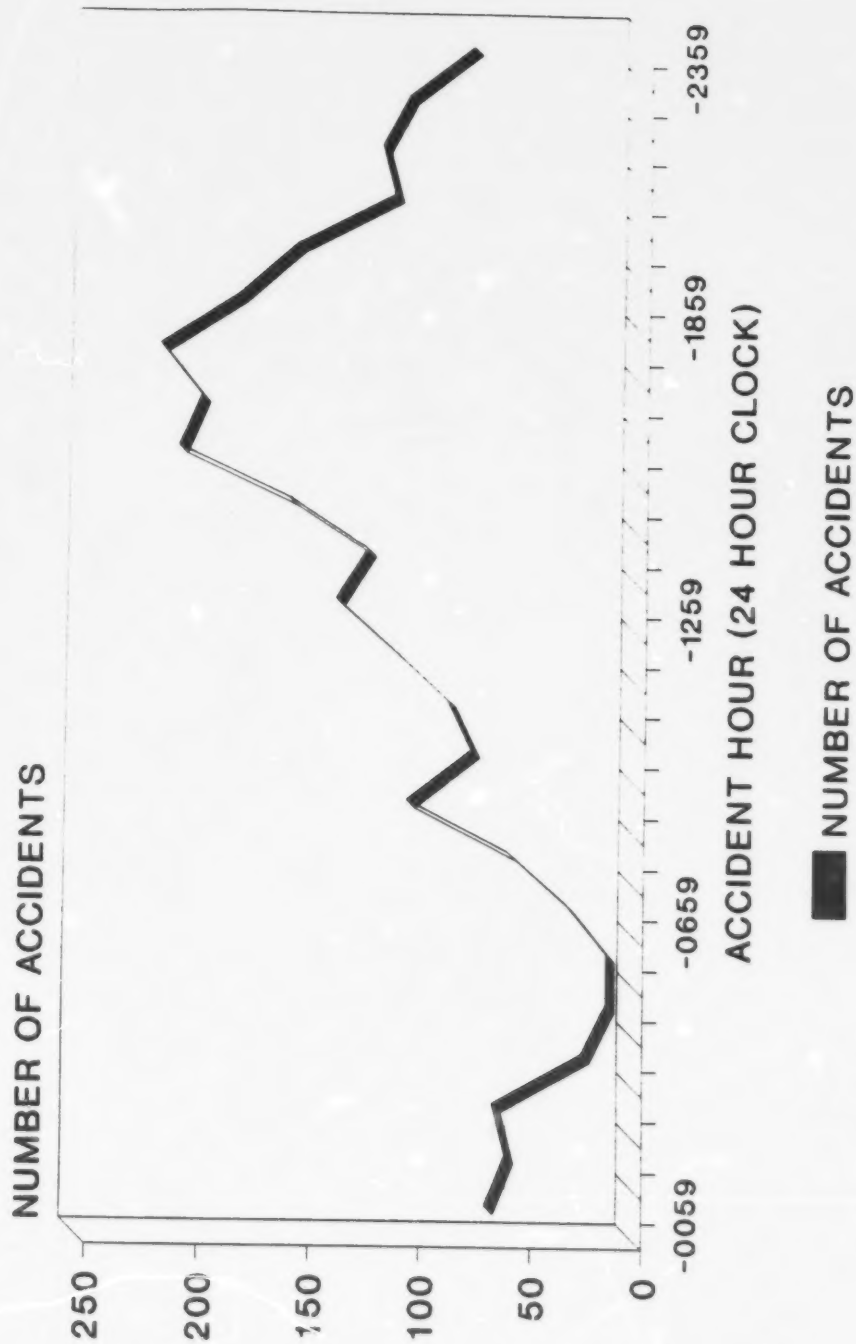


fig. 16

MAJOR CONTRIBUTING FACTORS IN 1988 PEDESTRIAN INVOLVED ACCIDENTS

- ALL FACTORS -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
FAILING TO YIELD RIGHT OF WAY	2	476	9	487	20.68
PEDESTRIAN ERROR/ CONFUSION	1	360	18	379	16.09
DRIVING WITHOUT DUE CARE	3	267	10	280	11.89
ALCOHOL INVOLVEMENT	2	245	21	268	11.38
BACKING UNSAFELY	0	89	0	89	3.78
WEATHER CONDITION	5	69	5	79	3.35
VISIBILITY IMPAIRED	0	57	2	59	2.51
IGNORING TRAFFIC CONTROL DEVICE	0	50	1	51	2.17
DRIVER INEXPERIENCE	0	29	0	29	1.23
DRIVING AT UNSAFE SPEED	0	24	5	29	1.23
DRIVERLESS VEHICLE	1	17	1	19	0.81
SUNLIGHT GLARE	0	18	0	18	0.76
AVOIDING VEH/PED/CYCLE	2	12	1	15	0.64
IMPROPER PASSING	1	13	1	15	0.64
IMPROPER TURNING	0	9	0	9	0.38
FOLLOWING TOO CLOSELY	1	7	0	8	0.34
ROAD MAINTENANCE/ CONSTRUCTION	0	7	0	7	0.30
SUICIDE ATTEMPT	0	5	2	7	0.30
(RESULT OF) DIRECTLY PRECEDING ACCIDENT	0	6	0	6	0.25
OTHER	2	386	10	398	16.89
UNKNOWN	0	101	2	103	4.37
TOTAL	20	2,247	88	2,355	100.00

NOTE: "OTHER" includes factors with less than 5 occurrences.

MAJOR CONTRIBUTING FACTORS IN 1988 PEDESTRIAN INVOLVED ACCIDENTS

- PEDESTRIAN FACTORS ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
PEDESTRIAN ERROR/ CONFUSION	1	321	18	340	42.24
ALCOHOL INVOLVEMENT	2	149	10	161	20.00
FAILING TO YIELD RIGHT OF WAY	0	41	2	43	5.34
IGNORING TRAFFIC CONTROL DEVICE	0	24	1	25	3.11
DRIVING WITHOUT DUE CARE	0	8	0	8	0.99
SUICIDE ATTEMPT	0	5	2	7	0.87
VISIBILITY IMPAIRED	0	5	0	5	0.62
WEATHER CONDITION	1	4	0	5	0.62
PHYSICAL DISABILITY (RESULT OF) DIRECTLY PRECEDING ACCIDENT	0	3	1	4	0.50
CUTTING IN	0	3	0	3	0.37
ILLNESS	0	2	0	2	0.25
ROAD MAINTENANCE/ CONSTRUCTION	1	1	0	2	0.25
ROAD/INTERSECTION DESIGN	0	2	0	2	0.25
OTHER	0	1	1	2	0.25
UNKNOWN	0	172	1	173	21.46
	0	23	0	23	2.86
TOTAL	5	764	36	805	100.00

NOTE: "OTHER" includes factors with less than 2 occurrences.

MAJOR CONTRIBUTING FACTORS IN 1988 PEDESTRIAN INVOLVED ACCIDENTS

- DRIVER/VEHICLE FACTORS ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
FAILING TO YIELD RIGHT OF WAY	2	435	7	444	28.65
DRIVING WITHOUT DUE CARE	3	259	10	272	17.55
ALCOHOL INVOLVEMENT	0	96	11	107	6.90
BACKING UNSAFELY	0	88	0	88	5.68
WEATHER CONDITION	0	65	5	74	4.77
VISIBILITY IMPAIRED	4	52	2	54	3.48
PEDESTRIAN ERROR/CONFUSION	0	39	0	39	2.52
DRIVING AT UNSAFE SPEED	0	24	5	29	1.87
DRIVER INEXPERIENCE	0	28	0	28	1.81
IGNORING TRAFFIC CONTROL DEVICE	0	26	0	26	1.68
DRIVERLESS VEHICLE	1	17	1	19	1.23
SUNLIGHT GLARE	0	18	0	18	1.16
AVOIDING VEH/PED/CYCLE	2	12	1	15	0.97
IMPROPER PASSING	1	13	1	15	0.97
IMPROPER TURNING	0	9	0	9	0.58
FOLLOWING TOO CLOSELY	1	6	0	7	0.45
ROAD MAINTENANCE/CONSTRUCTION	0	5	0	5	0.32
OTHER	1	213	7	221	14.21
UNKNOWN	0	78	2	80	5.16
TOTAL	15	1,483	52	1,550	100.00

NOTE: "OTHER" includes factors with less than 5 occurrences.

PEDESTRIANS INJURED BY AGE AND PEDESTRIAN ACTION IN 1988 ACCIDENTS

PEDESTRIAN ACTION	VICTIM AGE									
	1-5	6-10	11-15	16	17	18	19	20	21-25	26-30
CROSSING WITH SIGNAL	1	21	19	7	8	7	4	4	40	32
CROSSING AGAINST SIGNAL	2	9	11	4	4	6	1	6	20	15
CROSSING AT MARKED CROSSWALK, NO SIGNAL	6	25	35	6	6	11	3	3	30	29
CROSSING WITH NO SIGNAL, NO CROSS WALK	26	56	70	12	11	12	15	9	41	42
WALKING WITH TRAFFIC	1	2	16	13	9	4	4	3	11	6
WALKING AGAINST TRAFFIC	5	1	10	6	1	3	1	2	9	4
EMERGING FROM FRONT/BEHIND PARKED CAR	21	29	14	2	1	1	3	7	14	17
CHILD GETTING ON/OFF SCHOOL VEHICLE/CAR	4	7	1	1	1	1	0	0	0	0
ADULT GETTING ON/OFF VEHICLE	0	0	1	0	0	3	2	3	4	0
PUSHING/WORKING ON CAR	0	0	0	0	0	1	1	0	1	3
WORKING IN ROADWAY	1	0	1	1	2	0	1	0	3	6
PLAYING IN ROADWAY	20	10	5	1	2	2	1	1	4	0
RIDING/HITCHING ON CAR	2	3	4	7	1	2	1	1	7	4
STANDING ON SIDEWALK	0	0	0	0	0	0	0	0	0	0
OTHER	16	14	25	20	15	13	13	14	48	41
N/A	0	0	0	0	0	0	0	0	0	0
UNKNOWN	1	9	8	3	1	1	4	0	10	12
TOTAL	106	186	220	83	62	67	54	53	242	211

cont'd...

PEDESTRIANS INJURED BY AGE BY PEDESTRIAN ACTION IN 1988 ACCIDENTS

cont'd...

PEDESTRIAN ACTION	V I C T I M A G E								TOTAL INJURED
	31-40	41-50	51-60	61-70	71-80	81-90	OVER 91	UNKNOWN	
CROSSING WITH SIGNAL	48	36	34	29	42	16	2	9	359
CROSSING AGAINST SIGNAL	21	6	4	4	3	1	0	4	121
CROSSING AT MARKED CROSSWALK, NO SIGNAL	51	31	31	34	32	13	1	17	364
CROSSING WITH NO SIGNAL, NO CROSS WALK	85	39	38	34	47	16	1	30	584
WALKING WITH TRAFFIC	13	5	7	1	2	1	0	9	107
WALKING AGAINST TRAFFIC	2	4	1	3	1	0	1	1	55
EMERGING FROM FRONT/BEHIND PARKED CAR	10	3	7	2	2	3	0	4	140
CHILD GETTING ON/OFF SCHOOL VEHICLE/CAR	0	0	0	0	0	0	0	1	16
ADULT GETTING ON/OFF VEHICLE	4	2	3	1	0	0	0	1	24
PUSHING/WORKING ON CAR	5	2	1	1	1	0	0	3	19
WORKING IN ROADWAY	9	5	2	0	0	0	0	1	32
PLAYING IN ROADWAY	1	0	0	0	0	0	0	1	48
RIDING/HITCHING ON CAR	10	5	4	1	5	3	1	5	66
STANDING ON SIDEWALK	1	0	0	1	1	0	0	0	3
OTHER	61	33	22	24	16	7	0	31	413
N/A	0	0	0	0	1	0	0	2	3
UNKNOWN	17	13	16	4	5	3	1	7	115
TOTAL	338	184	170	139	158	63	7	126	2,469

PEDESTRIANS KILLED BY AGE AND PEDESTRIAN ACTION IN 1988 ACCIDENTS

PEDESTRIAN ACTION	VICTIM AGE									
	1-5	6-10	11-15	16	17	18	19	20	21-25	26-30
CROSSING WITH SIGNAL	0	0	0	0	0	0	0	0	0	0
CROSSING AGAINST SIGNAL	0	0	0	0	0	0	0	0	0	0
CROSSING AT MARKED CROSSWALK, NO SIGNAL	0	1	0	0	0	0	0	0	0	0
CROSSING WITH NO SIGNAL, NO CROSS WALK	1	0	1	0	0	0	1	1	2	2
WALKING WITH TRAFFIC	0	0	0	0	1	1	0	0	0	1
WALKING AGAINST TRAFFIC	0	0	0	0	0	0	0	1	0	0
EMERGING FROM FRONT/BEHIND PARKED CAR	1	0	0	0	0	0	0	0	0	0
CHILD GETTING ON/OFF SCHOOL VEHICLE/CAR	1	0	0	0	0	0	0	0	0	0
ADULT GETTING ON/OFF VEHICLE	0	0	0	0	0	0	0	0	0	0
PUSHING/WORKING ON CAR	0	0	0	0	0	0	0	0	0	0
WORKING IN ROADWAY	0	0	0	0	0	0	0	0	0	0
PLAYING IN ROADWAY	1	0	0	0	0	0	0	0	0	0
RIDING/HITCHING ON CAR	0	0	0	0	0	0	0	0	0	0
STANDING ON SIDEWALK	0	0	0	0	0	0	0	0	0	0
OTHER	0	1	1	0	0	0	1	0	2	2
N/A	0	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	2	0
TOTAL	4	2	2	0	1	1	2	2	6	5

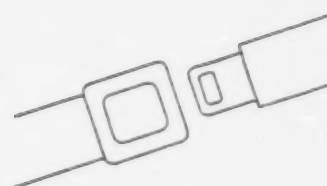
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PEDESTRIANS KILLED BY AGE AND PEDESTRIAN ACTION IN 1988 ACCIDENTS

cont'd...

PEDESTRIAN ACTION	VICTIM AGE								TOTAL KILLED
	31-40	41-50	51-60	61-70	71-80	81-90	91-95	UNKNOWN	
CROSSING WITH SIGNAL	0	0	0	0	0	1	0	0	1
CROSSING AGAINST SIGNAL	0	0	2	2	0	2	0	0	6
CROSSING AT MARKED CROSSWALK, NO SIGNAL	0	1	0	1	8	4	1	0	16
CROSSING WITH NO SIGNAL, NO CROSS WALK	1	2	3	7	7	4	0	0	32
WALKING WITH TRAFFIC	2	0	0	0	0	2	0	0	7
WALKING AGAINST TRAFFIC	1	0	2	0	0	0	0	0	4
EMERGING FROM FRONT/BEHIND PARKED CAR	0	0	1	0	0	0	0	0	2
CHILD GETTING ON/OFF SCHOOL VEHICLE/CAR	0	0	0	0	0	0	0	0	1
ADULT GETTING ON/OFF VEHICLE	1	0	0	0	0	0	0	0	2
PUSHING/WORKING ON CAR	0	0	0	0	0	0	0	0	0
WORKING IN ROADWAY	0	0	0	0	0	0	0	0	0
PLAYING IN ROADWAY	0	0	0	0	0	0	0	0	1
RIDING/HITCHING ON CAR	0	0	0	0	0	1	0	0	1
STANDING ON SIDEWALK	0	0	0	0	0	0	0	0	0
OTHER	1	4	0	1	1	0	0	0	14
N/A	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	1	0	0	3
TOTAL	6	7	8	11	17	15	1	0	90

SECTION 6



SAFETY EQUIPMENT

10

USE OF SAFETY EQUIPMENT IN 1988

The use of safety equipment by motor vehicle drivers and passengers has been mandatory in British Columbia since 1977. In March 1985, child restraint legislation was passed, making it compulsory for children under the age of six to be carried or seated in an approved child restraint device.

The incidence of safety equipment use among drivers and passengers involved in accidents appears to be increasing. Table 6.1 shows that of those drivers and passengers involved in accidents in 1988 who were in or on equipped vehicles, reported compliance was approximately 86%. As recently as 1982, this figure was only 70%. Due to the fact that inaccuracies may exist in the driver-reported data obtained from non-attended accidents, actual usage may be somewhat lower than these figures indicate.

TYPE OF SAFETY EQUIPMENT USED BY DRIVERS AND PASSENGERS IN
1988 ACCIDENTS

DRIVERS

SAFETY EQUIPMENT	NOT INJURED	INJURED	KILLED	TOTAL DRIVERS	PERCENT OF TOTAL
LAP & HARNESS	84,882	17,672	99	102,653	48.91
LAP BELT ONLY	10,979	1,988	19	12,986	6.19
NONE USED	3,288	1,957	141	5,386	2.57
HARNESS ONLY	1,114	217	0	1,331	0.63
NONE IN VEHICLE	1,131	185	2	1,318	0.63
HELMET	213	948	37	1,198	0.57
NO HELMET	14	50	7	71	0.03
AIR BAG	0	0	0	0	0.00
OTHER	0	1	1	2	0.00
UNKNOWN	82,650	2,264	18	69,230	40.47
TOTAL	184,271	25,282	324	209,877	100.00

PASSENGERS

SAFETY EQUIPMENT	NOT INJURED	INJURED	KILLED	TOTAL PASSENGERS	PERCENT OF TOTAL
LAP & HARNESS	29,368	7,240	48	36,656	51.52
LAP BELT ONLY	14,836	3,080	19	17,935	25.21
NONE USED	2,566	2,259	92	4,917	6.91
CHILD RESTRAINT	2,396	189	3	2,588	3.64
NONE IN VEHICLE	936	360	3	1,299	1.83
HARNESS ONLY	494	117	0	611	0.86
HELMET	53	152	3	208	0.29
NO HELMET	4	19	0	23	0.03
AIR BAG	0	0	0	0	0.00
OTHER	0	0	0	0	0.00
UNKNOWN	5,871	1,032	8	6,911	9.71
TOTAL	56,524	14,448	176	71,148	100.00

SAFETY EQUIPMENT USED IN 1988 ACCIDENTS - DRIVERS -

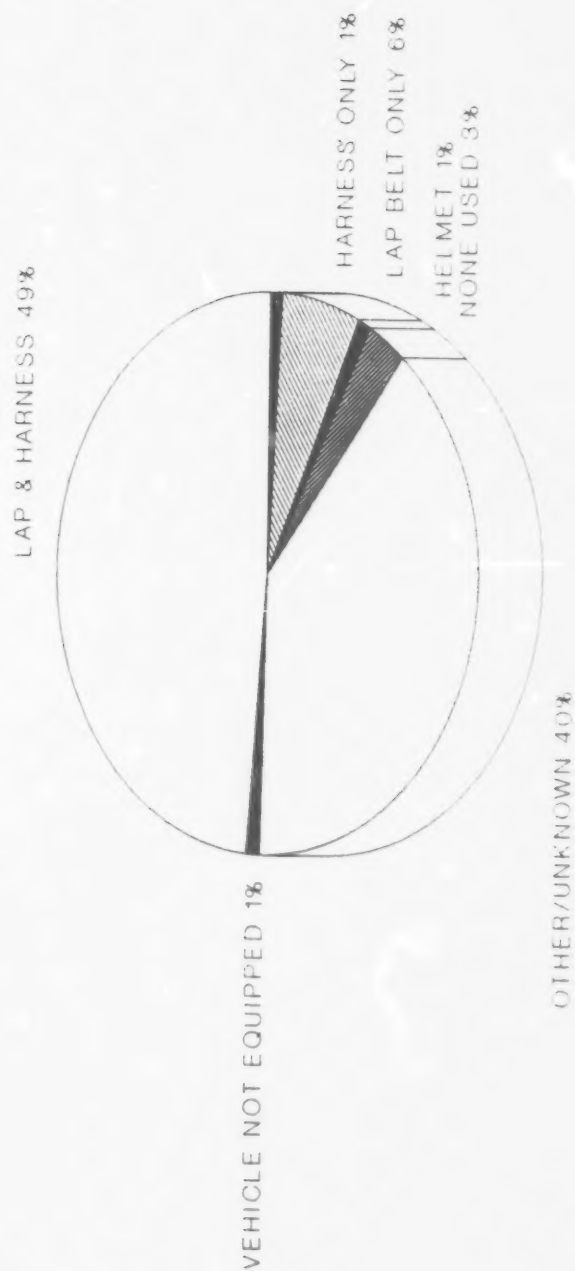


fig. 17

SAFETY EQUIPMENT USED IN 1988 ACCIDENTS - PASSENGERS -

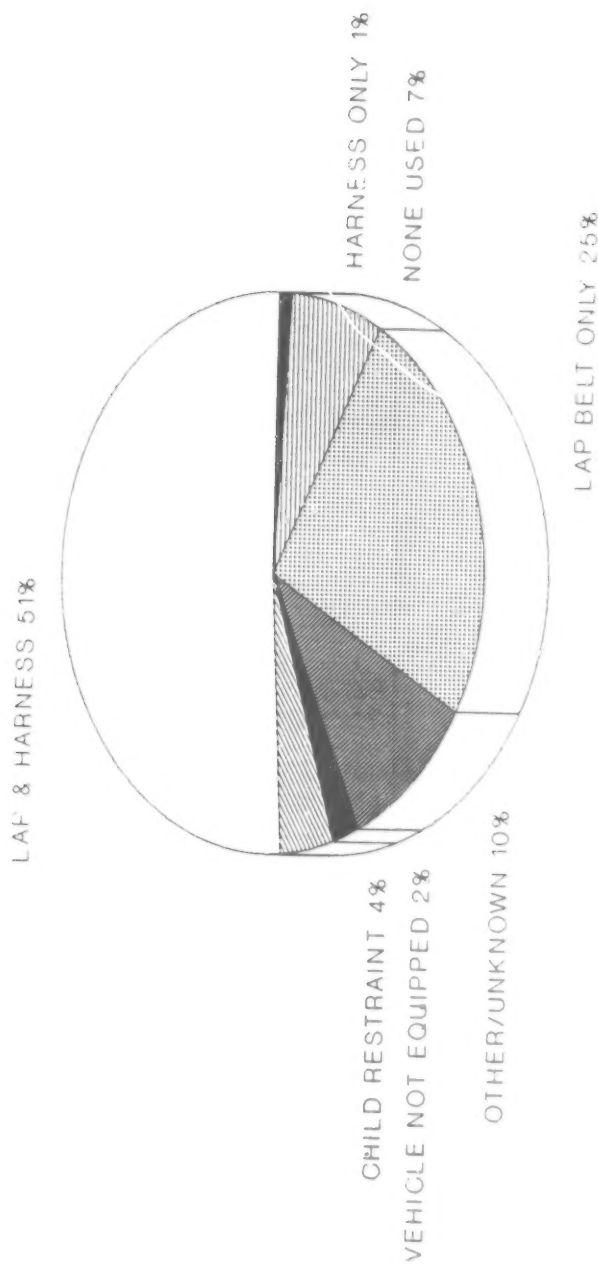


fig. 18

SAFETY EQUIPMENT USED FOR VICTIMS INJURED IN 1988 ACCIDENTS
BY POSITION IN VEHICLE

SAFETY EQUIPMENT	POSITION IN VEHICLE										TOTAL VICTIMS	PERCENT OF TOTAL
	DRIVER	CENTER FRONT	RIGHT FRONT	LEFT BACK	CENTER BACK	RIGHT BACK	CARGO AREA	HANGING ON	OTHER	UNKNOWN		
LAP AND HARNESS	17,672	768	6,006	180	49	200	20	1	8	8	24,912	62.70
LAP BELT ONLY	1,988	282	761	772	224	967	58	5	6	5	5,068	12.76
NONE USED	1,957	326	1,115	213	153	247	86	48	33	38	4,216	10.61
HELMET	948	0	3	141	0	0	0	8	0	0	1,100	2.77
NONE IN VEHICLE	185	41	75	31	29	25	122	7	22	8	545	1.37
HARNESS ONLY	217	13	61	16	9	16	2	0	0	0	334	0.84
CHILD RESTRAINT	0	17	41	50	20	59	1	0	0	1	189	0.48
NO HELMET	50	0	0	17	0	1	0	1	0	0	69	0.17
OTHER	1	0	0	0	0	0	0	0	0	0	1	0.00
UNKNOWN	2,264	132	465	177	49	98	25	52	4	30	3,296	8.30
TOTAL	25,282	1,579	8,527	1,597	533	1,613	314	122	73	90	39,730	100.00

NOTE: For motorcycles, "RIGHT FRONT" refers to a sidecar, and "LEFT BACK" refers to the position directly behind the motorcycle driver.

SAFETY EQUIPMENT USED FOR VICTIMS KILLED IN 1988 ACCIDENTS
BY POSITION IN VEHICLE

SAFETY EQUIPMENT	POSITION IN VEHICLE										TOTAL VICTIMS	PERCENT OF TOTAL
	DRIVER	CENTER FRONT	RIGHT FRONT	LEFT BACK	CENTER BACK	RIGHT BACK	CARGO AREA	HANGING ON	OTHER	UNKNOWN		
NONE USED	141	7	44	12	10	5	1	3	3	7	233	46.60
LAP AND HARNESS	99	3	43	1	0	0	0	0	1	0	147	29.40
HELMET	37	0	0	1	0	0	0	0	0	2	40	8.00
LAP BELT ONLY	19	0	5	3	0	7	0	0	0	4	38	7.60
NO HELMET	7	0	0	0	0	0	0	0	0	0	7	1.40
NONE IN VEHICLE	2	0	1	1	0	0	1	0	0	0	5	1.00
CHILD RESTRAINT	0	1	0	1	0	1	0	0	0	0	3	0.60
OTHER	1	0	0	0	0	0	0	0	0	0	1	0.20
UNKNOWN	18	0	6	0	0	0	0	0	0	2	26	5.20
TOTAL	324	11	99	19	10	13	2	3	4	15	500	100.00

NOTE: For motorcycles, "RIGHT FRONT" refers to a sidecar, and "LEFT BACK" refers to the position directly behind the motorcycle driver.

DRIVER AGE BY SAFETY EQUIPMENT USED FOR DRIVERS
INJURED IN 1988 ACCIDENTS

DRIVER AGE	SAFETY EQUIPMENT								TOTAL VICTIMS	PERCENT OF TOTAL
	VEHICLE NOT EQUIPPED	NONE USED	LAP BELT ONLY	HARNESSES ONLY	LAP & HARNESSES	HELMET	NO HELMET	OTHER		
1 - 10	0	1	0	0	11	1	0	0	18	0.07
11 - 15	0	14	1	1	20	8	5	0	65	0.26
16	6	54	54	1	352	17	6	0	527	2.08
17	11	113	89	8	597	43	4	0	939	3.71
18	8	123	100	7	736	60	2	0	1,136	4.49
19	10	117	105	8	715	62	4	0	1,131	4.47
20	4	109	94	8	706	71	4	0	1,111	4.39
21 - 25	49	444	362	28	2,942	281	6	0	4,566	18.06
26 - 30	21	294	317	35	2,427	144	6	1	3,611	14.28
31 - 35	29	217	248	29	2,053	105	9	0	2,945	11.65
36 - 40	9	152	179	28	1,753	62	1	0	2,403	9.50
41 - 45	9	88	124	20	1,388	33	2	0	1,779	7.04
46 - 50	8	73	80	19	977	25	1	0	1,285	5.08
51 - 55	6	50	71	6	794	8	0	0	994	3.93
56 - 60	3	32	46	6	745	9	0	0	897	3.55
61 - 65	0	24	36	4	544	12	0	0	668	2.64
66 - 70	4	18	22	4	385	4	0	0	462	1.83
71 - 75	5	13	18	2	319	1	0	0	393	1.55
76 - 80	1	8	23	1	126	1	0	0	170	0.67
81 - 85	1	6	9	2	49	0	0	0	82	0.32
86 - 90	0	0	4	0	9	0	0	0	15	0.06
91 - 95	0	0	2	0	0	0	0	0	2	0.01
OVER 95	0	0	0	0	0	0	0	0	0	0.00
UNKNOWN	1	7	4	0	24	1	0	0	83	0.33
TOTAL	185	1,957	1,988	217	17,672	948	50	1	25,282	100.00
									2,264	

DRIVER AGE BY SAFETY EQUIPMENT USED FOR DRIVERS
KILLED IN 1988 ACCIDENTS

DRIVER AGE	SAFETY EQUIPMENT								TOTAL VICTIMS	PERCENT OF TOTAL
	VEHICLE NOT EQUIPPED	NONE USED	LAP BELT ONLY	HARNESS ONLY	LAP & HARNESS	HELMET	NO HELMET	OTHER		
1 - 10	0	0	0	0	0	1	0	0	1	0.31
11 - 15	0	0	0	0	0	0	0	0	1	0.31
16	0	2	0	0	2	1	0	0	5	1.54
17	1	7	0	0	2	3	0	0	13	4.01
18	0	5	0	0	4	2	0	0	11	3.40
19	0	9	1	0	3	2	1	0	18	5.56
20	0	4	1	0	2	4	1	0	12	3.70
21 - 25	0	28	1	0	13	6	1	1	55	16.98
26 - 30	0	27	3	0	9	11	3	1	56	17.28
31 - 35	1	12	3	0	7	1	0	0	26	8.02
36 - 40	0	12	0	0	3	4	1	0	20	6.17
41 - 45	0	8	3	0	8	2	0	0	22	6.79
46 - 50	0	3	1	0	4	0	0	0	9	2.78
51 - 55	0	9	1	0	6	0	0	0	18	5.56
56 - 60	0	6	0	0	8	0	0	0	15	4.63
61 - 65	0	3	1	0	9	0	0	0	13	4.01
66 - 70	0	3	0	0	8	0	0	0	11	3.40
71 - 75	0	0	1	0	2	0	0	0	3	0.93
76 - 80	0	0	1	0	7	0	0	0	8	2.47
81 - 85	0	3	1	0	0	0	0	0	4	1.23
86 - 90	0	0	0	0	2	0	0	0	2	0.62
91 - 95	0	0	1	0	0	0	0	0	1	0.31
TOTAL	2	141	19	0	99	37	7	1	324	100.00
									18	

PASSENGER AGE BY SAFETY EQUIPMENT USED FOR PASSENGERS
INJURED IN 1988 ACCIDENTS

VICTIM AGE	SA F E T Y E Q U I P M E N T										TOTAL VICTIMS	PERCENT OF TOTAL
	VEHICLE NOT EQUIPPED	NONE USED	LAP BELT ONLY	HARNESSES ONLY	LAP AND HARNESSES	CHILD RESTRAINT	HELMET	NO HELMET	OTHER	UNKNOWN		
1	2	20	7	2	7	64	0	0	0	3	105	0.73
2	2	16	30	1	14	53	1	0	0	0	117	0.81
3	3	30	41	2	24	31	0	0	0	5	136	0.94
4	2	18	51	3	37	18	0	0	0	2	131	0.91
5	2	24	70	0	44	5	0	0	0	6	151	1.05
6 - 10	25	77	347	7	235	5	1	0	0	22	719	4.98
11 - 15	32	181	373	11	411	3	6	3	0	52	1,072	7.42
16	19	150	164	8	248	0	5	3	0	47	644	4.46
17	24	178	180	2	313	0	5	2	0	65	769	5.32
18	14	169	173	9	346	0	17	1	0	54	783	5.42
19	10	155	136	4	290	0	13	1	0	55	664	4.60
20	19	122	110	3	264	0	5	0	0	42	565	3.91
21 - 25	57	391	352	17	1,028	2	39	5	0	147	2,038	14.11
26 - 30	33	203	209	13	748	1	14	2	0	98	1,321	9.14
31 - 35	16	135	145	5	505	0	15	2	0	49	872	6.04
36 - 40	16	86	99	4	432	0	6	0	0	34	677	4.69
41 - 45	16	38	86	3	333	1	6	0	0	26	509	3.52
46 - 50	10	29	73	2	278	0	4	0	0	21	417	2.89
51 - 55	5	20	59	5	256	0	4	0	0	19	368	2.55
56 - 60	11	26	66	2	280	0	1	0	0	14	400	2.77
61 - 65	7	9	75	1	228	0	0	0	0	11	331	2.29
66 - 70	5	13	45	2	194	0	0	0	0	12	271	1.88
71 - 75	4	12	42	1	156	0	0	0	0	8	223	1.54
76 - 80	1	7	18	2	88	0	0	0	0	1	117	0.81
81 - 85	2	6	11	0	36	0	0	0	0	1	56	0.39
86 - 90	0	3	8	0	17	0	0	0	0	0	28	0.19
91 - 95	0	0	2	0	3	0	0	0	0	1	6	0.04
OVER 95	0	1	0	0	1	0	0	0	0	1	3	0.02
UNKNOWN	23	140	108	8	424	6	10	0	0	236	955	6.61
TOTAL	360	2,259	3,080	117	7,240	189	152	19	0	1,032	14,448	100.00

PASSENGER AGE BY SAFETY EQUIPMENT USED FOR PASSENGERS
KILLED IN 1988 ACCIDENTS

VICTIM AGE	SAFETY EQUIPMENT										TOTAL VICTIMS	PERCENT OF TOTAL
	VEHICLE NOT EQUIPPED	NONE USED	LAP BELT ONLY	HARNES ONLY	LAP AND HARNESS	AIR BAG	CHLD RESTRAINT	HELMET	NO HELMET	OTHER		
1	0	3	0	0	1	0	2	0	0	0	6	3.35
2	0	0	0	0	0	0	1	0	0	0	1	0.56
3	0	0	0	0	0	0	0	0	0	0	1	0.56
4	0	0	0	0	0	0	0	0	0	0	3	1.68
5	0	0	0	0	0	0	0	0	0	0	1	0.56
6-10	0	1	3	0	0	0	0	0	0	0	3	1.68
11-15	0	6	3	0	1	0	0	0	0	0	3	1.68
16	0	4	0	0	1	0	0	0	0	0	7	3.91
17	0	6	0	0	1	0	0	0	0	0	5	2.79
18	0	4	1	0	0	0	0	0	0	0	9	5.03
19	1	7	1	0	5	0	0	0	0	0	6	3.35
20	0	3	0	0	1	0	0	1	0	0	9	5.03
21-25	0	16	2	0	5	0	0	0	0	0	26	14.52
26-30	0	11	0	0	6	0	0	0	0	0	26	14.52
31-35	1	5	0	0	3	0	0	1	0	0	13	7.27
36-40	0	3	0	0	1	0	0	0	0	0	9	5.03
41-45	0	10	1	0	2	0	0	0	0	0	4	2.23
46-50	0	1	1	0	4	0	0	0	0	0	8	4.47
51-55	0	2	0	0	0	0	0	0	0	0	7	3.91
56-60	0	3	1	0	4	0	0	0	0	0	7	3.91
61-65	0	1	0	0	3	0	0	0	0	0	6	3.35
66-70	1	3	1	0	2	0	0	0	0	0	6	3.35
71-75	0	3	1	1	3	0	0	0	0	0	4	2.23
76-80	0	0	1	1	4	0	0	1	0	0	1	0.56
81-85	0	0	1	0	0	0	0	0	0	0	0	0.00
86-90	0	0	2	0	1	0	0	0	0	0	5	2.79
91-95	0	0	0	0	0	0	0	0	0	0	0	0.00
OVER 95	0	0	0	0	0	0	0	0	0	0	0	0.00
UNKNOWN	0	0	0	0	0	0	0	0	0	0	3	1.68
TOTAL	3	92	19	0	48	0	3	3	0	0	176	100.00

SECTION 7



ENVIRONMENTAL FACTORS



1988 ENVIRONMENTAL FACTORS

The environmental conditions reported in accidents do not vary greatly from year to year. Environmental factors were reported to be a major contributing factor in 16.48% of the accidents in which factors were reported in 1988, compared to 15.23% in 1987.

The degree to which certain environmental conditions are represented in accidents reflects the degree to which these conditions are found in the overall environment.

For example, the fact that the majority of accidents occur on asphalt roads does not mean that these roads are more dangerous, but rather that they are the predominant road surface to be found in the province.

1988 ACCIDENTS BY ROAD TYPE

ROAD TYPE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
ASPHALT	72,476	28,202	497	101,175	76.22
GRAVEL	4,096	1,039	29	5,164	3.89
EARTH	494	123	5	622	0.47
CONCRETE	443	147	2	592	0.45
WOOD	97	37	1	135	0.10
OILED GRAVEL	64	26	0	90	0.07
BRICK/STONE	18	11	1	30	0.02
OTHER	41	13	0	54	0.04
UNKNOWN	23,548	1,337	0	24,885	18.75
TOTAL	101,277	30,935	535	132,747	100.00

7.1

1988 ACCIDENTS BY ROADWAY SURFACE CONDITION

SURFACE CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRY	57,671	18,350	367	76,388	57.54
WET	30,714	9,905	118	40,737	30.69
ICY	4,605	1,285	22	5,912	4.45
SNOW	3,679	718	11	4,408	3.32
SLUSH	1,052	347	13	1,412	1.06
MUDDY	187	45	1	233	0.18
OTHER	61	23	1	85	0.06
UNKNOWN	3,308	262	2	3,572	2.69
TOTAL	101,277	30,935	535	132,747	100.00

7.2

1988 ACCIDENTS BY ROAD TYPE

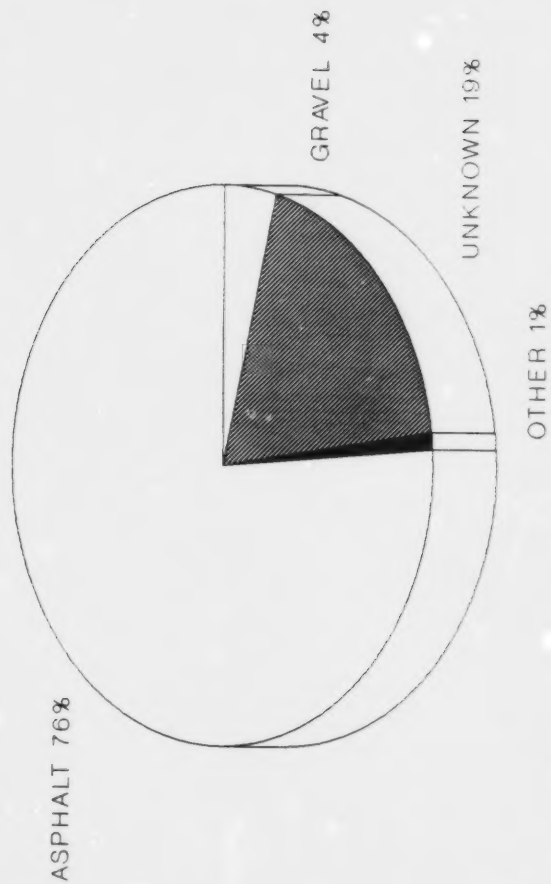


fig. 19

1988 ACCIDENTS BY ROADWAY SURFACE CONDITION

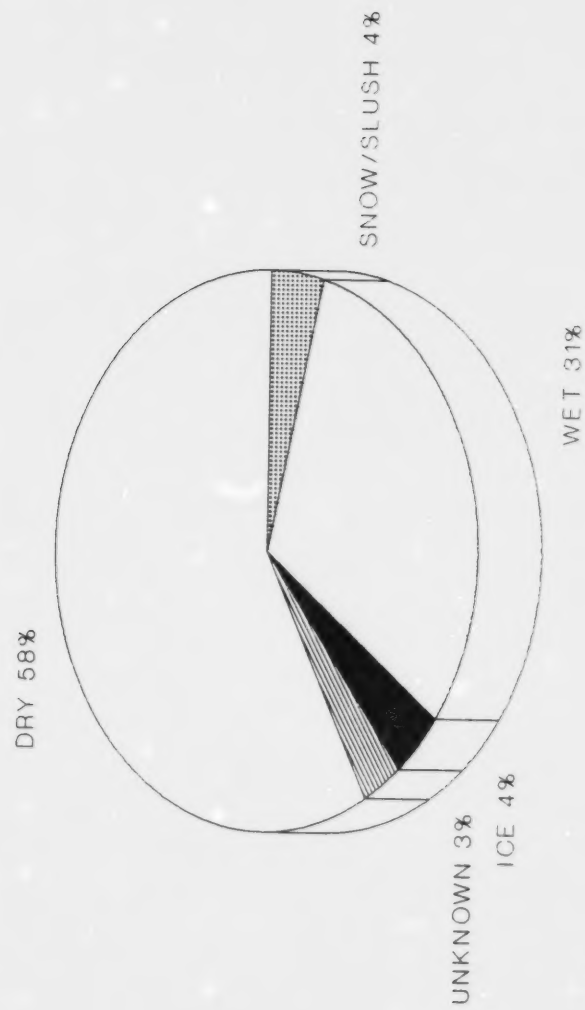


fig. 20

1988 ACCIDENTS BY LIGHTING CONDITION

LIGHTING CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DAYLIGHT	62,507	19,397	251	82,155	61.89
DARK/SOME ILLUMINATION	13,629	4,180	72	17,881	13.47
DARK/FULL ILLUMINATION	8,793	2,506	42	11,341	8.54
DARK/NO ILLUMINATION	7,531	2,923	136	10,590	7.98
DUSK	3,560	1,153	17	4,730	3.56
DAWN	1,362	520	16	1,898	1.43
OTHER	95	3	0	99	0.07
UNKNOWN	3,799	253	1	4,053	3.05
TOTAL	101,277	30,935	535	132,747	100.00

7.3

1988 ACCIDENTS BY WEATHER CONDITION

WEATHER CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
CLEAR	46,979	14,144	262	61,385	46.24
CLOUDY	25,948	8,924	173	35,045	26.40
RAIN	19,917	6,320	71	26,308	19.82
SNOW/SLEET	3,590	916	22	4,528	3.41
FOG	605	254	4	863	0.65
STRONG WIND	63	23	0	86	0.06
HAIL	28	20	0	48	0.04
SMOG/SMOKE	25	8	0	33	0.02
OTHER	59	4	1	64	0.05
UNKNOWN	4,063	322	2	4,387	3.30
TOTAL	101,277	30,935	535	132,747	100.00

7.4

1988 ACCIDENTS BY LIGHTING CONDITION

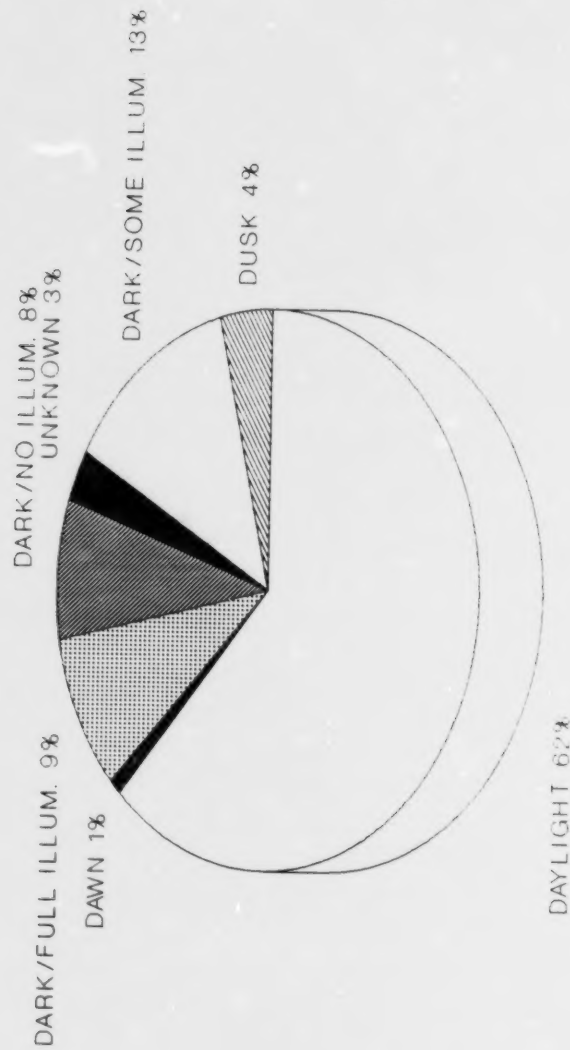


fig. 21

1988 ACCIDENTS BY WEATHER CONDITION

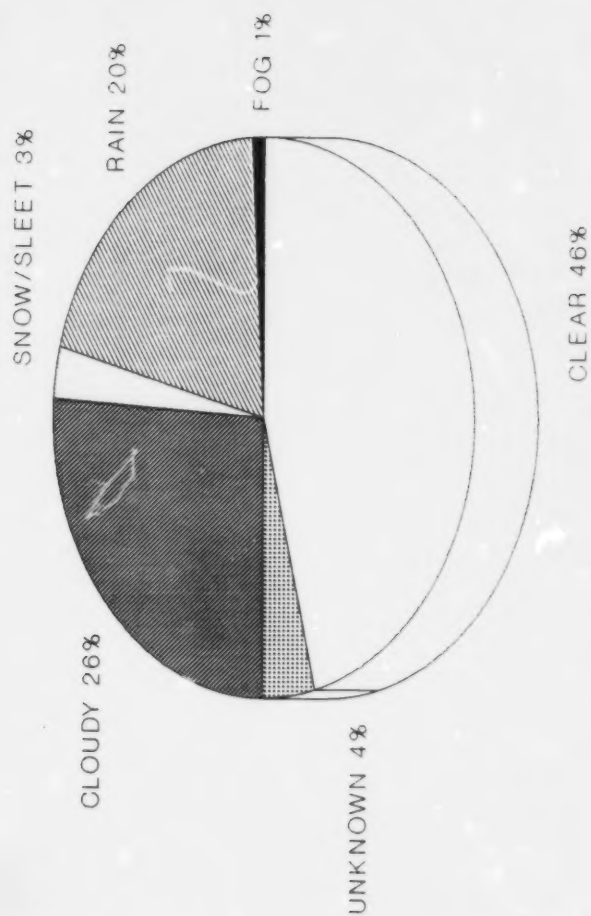


fig. 22

1988 ACCIDENTS BY LAND USAGE

LAND USAGE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
BUSINESS/SHOPPING	29,034	8,938	79	38,051	28.66
URBAN RESIDENTIAL	17,826	7,537	89	25,452	19.17
AGRICULTURAL/UNDEVELOPED	11,566	5,235	236	17,037	12.83
RURAL RESIDENTIAL	4,768	2,558	62	7,388	5.57
INDUSTRIAL/MANUFACTURING	4,270	1,917	24	6,211	4.68
APARTMENT RESIDENTIAL	4,389	1,642	21	6,052	4.56
SCHOOL/PLAYGROUND	1,929	713	5	2,647	1.99
RECREATIONAL/PARK/CAMPING	1,934	658	19	2,611	1.97
OTHER	75	39	0	114	0.09
UNKNOWN	25,486	1,698	0	27,184	20.48
TOTAL	101,277	30,935	535	132,747	100.00

1988 ACCIDENTS BY LAND USAGE

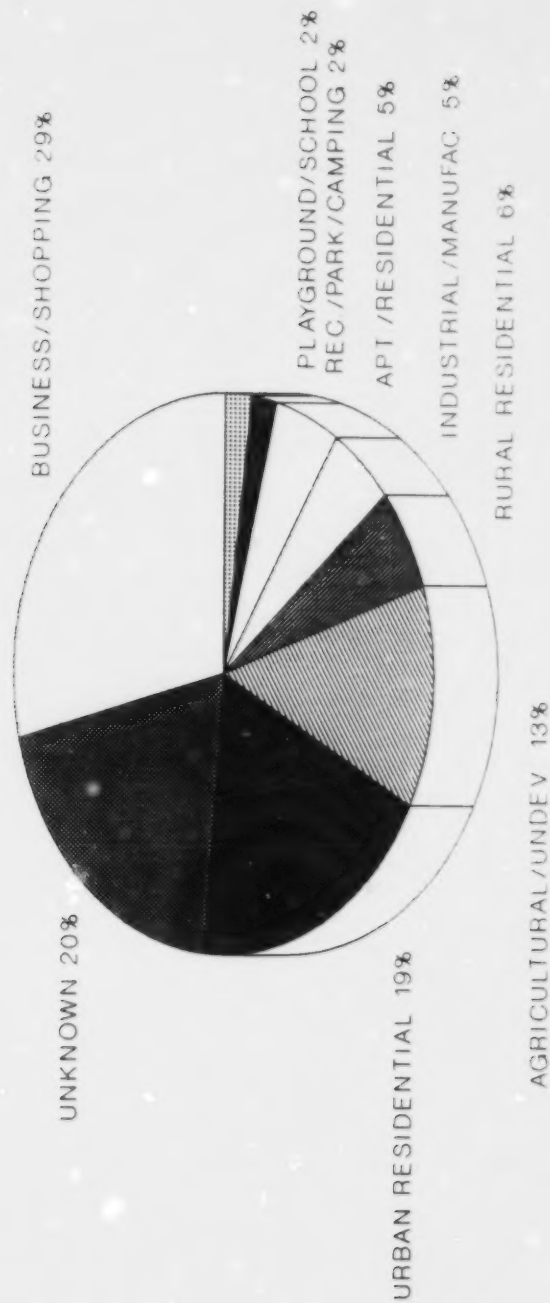


fig. 23

SECTION 8



ACCIDENT CONFIGURATIONS

ACCIDENT CONFIGURATIONS

We included two new primary accident occurrence tables last year, one for single vehicle accidents and one for multiple vehicle accidents. These tables show that 32% of all single vehicle accidents involve going off the road, and the highest proportion of multiple vehicle accidents, 24%, are rear end collisions.

The proportion of accidents which occur on municipal streets has risen 18% from 1987 while the proportion which occur on provincial highways has also increased by 7% from last year.

Thirty-eight percent of all accidents occurred between intersections in 1988, and 34% occurred at intersections.

1988 ACCIDENTS BY PRIMARY ACCIDENT OCCURRENCE

PRIMARY ACCIDENT OCCURRENCE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
REAR END →→	16,524	7,993	24	24,541	18.49
RIGHT ANGLE COLLISION →↘	10,599	5,280	69	15,948	12.01
OFF ROAD - RIGHT ↘↘	7,015	3,814	105	10,934	8.24
OFF ROAD - LEFT ↘-	4,695	2,669	89	7,453	5.61
SIDE SWIPE ↘↘	5,875	783	21	6,679	5.03
BACKING UP ←	5,915	317	5	6,237	4.70
LEFT TURN - ACROSS ONCOMING TRAFFIC ↘↘	4,002	1,718	21	5,741	4.32
HEAD ON →↔	2,187	1,046	116	3,349	2.52
OVERTAKING ↘↘	2,735	456	5	3,196	2.41
LEFT TURN - HEAD ON →↘	1,613	532	8	2,153	1.62
LEFT TURN - ONE WAY ↘	849	171	1	1,021	0.77
RIGHT TURN - REAR END →↘	724	134	0	858	0.65
RIGHT TURN - HEAD ON ↘↘	398	109	2	509	0.38
ONE WAY STREET ↗↗	281	53	0	334	0.25
RIGHT TURN - SAME DIRECTION →↘	192	64	0	256	0.19
RIGHT TURN - OPPOSITE DIRECTION ↘↘	80	34	0	114	0.09
UNKNOWN	6,606	1,035	9	7,650	5.76
OTHER	30,987	4,727	60	35,774	26.95
TOTAL	101,277	30,935	535	132,747	100.00

1988 SINGLE VEHICLE ACCIDENTS BY PRIMARY ACCIDENT OCCURRENCE

PRIMARY ACCIDENT OCCURRENCE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
OFF ROAD - RIGHT 	6,484	3,667	101	10,252	32.07
OFF ROAD - LEFT 	4,326	2,514	82	6,922	21.65
HEAD ON 	1,188	222	22	1,432	4.48
RIGHT ANGLE COLLISION 	228	477	24	729	2.28
SIDE SWIPE 	519	79	1	599	1.87
BACKING UP 	385	112	3	500	1.56
REAR END 	120	44	3	167	0.52
LEFT TURN - ACROSS ONCOMING TRAFFIC 	26	93	4	123	0.38
LEFT TURN - HEAD ON 	49	39	0	88	0.28
OVERTAKING 	40	30	0	70	0.22
RIGHT TURN - SAME DIRECTION 	41	19	0	60	0.19
ONE WAY STREET 	36	17	0	53	0.17
RIGHT TURN - REAR END 	41	10	0	51	0.16
LEFT TURN - ONE WAY 	22	20	0	42	0.13
RIGHT TURN - OPPOSITE DIRECTION 	20	16	0	36	0.11
RIGHT TURN - HEAD ON 	10	18	1	29	0.09
OTHER	6,541	2,562	44	9,147	28.62
UNKNOWN	1,241	417	7	1,665	5.21
TOTAL	21,317	10,356	292	31,965	100.00

1988 MULTIPLE VEHICLE ACCIDENTS BY PRIMARY ACCIDENT OCCURRENCE

PRIMARY ACCIDENT OCCURRENCE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
REAR END 	16,404	7,949	21	24,374	24.18
RIGHT ANGLE COLLISION 	10,371	4,803	45	15,219	15.10
SIDE SWIPE 	5,356	704	20	6,080	6.03
BACKING UP 	5,530	205	2	5,737	5.69
LEFT TURN - ACROSS ONCOMING TRAFFIC 	3,976	1,625	17	5,618	5.57
OVERTAKING 	2,695	426	5	3,126	3.10
LEFT TURN - HEAD ON 	1,564	493	8	2,065	2.05
HEAD ON 	999	824	94	1,917	1.90
LEFT TURN - ONE WAY 	827	151	1	979	0.97
RIGHT TURN - REAR END 	683	124	0	807	0.80
OFF ROAD - RIGHT 	531	147	4	682	0.68
OFF ROAD - LEFT 	369	155	7	531	0.53
RIGHT TURN - HEAD ON 	388	91	1	480	0.48
ONE WAY STREET 	245	36	0	281	0.28
RIGHT TURN - SAME DIRECTION 	151	45	0	196	0.19
RIGHT TURN - OPPOSITE DIRECTION 	60	18	0	78	0.08
OTHER	24,446	2,165	16	26,627	26.42
UNKNOWN	5,365	618	2	5,985	5.94
TOTAL	79,960	20,579	243	100,782	100.00

1988 ACCIDENTS BY ACCIDENT LOCATION

ACCIDENT LOCATION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
BETWEEN INTERSECTIONS	38,585	12,055	331	50,971	38.40
AT INTERSECTION	30,964	13,733	127	44,824	33.77
PARKING LOT	16,493	603	6	17,102	12.88
ROAD/DRIVEWAY INTERSECTION	6,209	1,900	29	8,138	6.13
OFF HIGHWAY	1,706	465	4	2,175	1.64
BRIDGE	1,362	615	18	1,995	1.50
ENTRANCE RAMP	317	156	0	473	0.36
EXIT RAMP	326	140	1	467	0.35
INDUSTRIAL ROAD	323	124	7	454	0.34
ENTRANCE ACCELERATION LANE	177	80	1	258	0.19
ENTRANCE INTERSECTION	173	79	0	252	0.19
RAILROAD CROSSING	150	82	6	238	0.18
EXIT INTERSECTION	146	48	0	194	0.15
FERRY OR DOCK	91	15	0	106	0.08
TUNNEL	64	36	2	102	0.08
EXIT DECELERATION LANE	71	28	0	99	0.07
OTHER	452	221	3	676	0.51
UNKNOWN	3,668	555	0	4,223	3.18
TOTAL	101,277	30,935	535	132,747	100.00

1988 ACCIDENTS BY ROAD JURISDICTION

ROAD JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
MUNICIPAL STREET	85,002	22,743	260	108,005	81.36
PROVINCIAL HIGHWAY	16,256	8,190	275	24,721	18.62
UNKNOWN	19	2	0	21	.02
TOTAL	101,277	30,935	535	132,747	100.00

1988 ACCIDENTS BY SPEED BY ROAD JURISDICTION

- MUNICIPAL STREET -

SPEED	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
POSTED 50 KM/H	32,202	13,954	146	46,302	42.87
POSTED 60 KM/H	3,988	2,302	39	6,329	5.86
ADVISORY 50 KM/H	1,988	922	8	2,918	2.70
POSTED 30 KM/H	2,244	530	5	2,779	2.57
POSTED 80 KM/H	1,875	816	26	2,717	2.52
POSTED 10 KM/H	921	42	0	963	0.89
POSTED 70 KM/H	497	258	9	764	0.71
ADVISORY 30 KM/H	628	108	2	738	0.68
POSTED 20 KM/H	536	77	1	614	0.57
POSTED 40 KM/H	438	100	4	542	0.50
ADVISORY 10 KM/H	478	26	0	504	0.47
ADVISORY 20 KM/H	373	37	0	410	0.38
POSTED 90 KM/H	321	85	3	409	0.38
SPECIAL 10 KM/H	249	16	1	266	0.25
ADVISORY 80 KM/H	125	54	2	181	0.17
SPECIAL 30 KM/H	111	17	0	128	0.12
ADVISORY 60 KM/H	87	36	0	123	0.12
ADVISORY 40 KM/H	80	34	2	116	0.10
SPECIAL 20 KM/H	94	18	0	112	0.10
SPECIAL 50 KM/H	75	17	0	92	0.09
SPECIAL 80 KM/H	15	7	0	22	0.02
SPECIAL 40 KM/H	9	2	0	11	0.01
SPECIAL 60 KM/H	6	5	0	11	0.01
ADVISORY 70 KM/H	8	2	0	10	0.00
ADVISORY 90 KM/H	6	2	0	8	0.00
SPECIAL 70 KM/H	2	2	0	4	0.00
OTHER	661	86	9	756	0.71
UNKNOWN	36,985	3,188	3	40,176	37.20
TOTAL	85,002	22,743	260	108,005	100.00

1988 ACCIDENTS BY SPEED BY ROAD JURISDICTION

- PROVINCIAL HIGHWAY -

SPEED		ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
		PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
POSTED	90 KM/H	4,096	1,712	111	5,919	23.94
POSTED	50 KM/H	3,449	1,850	16	5,315	21.49
POSTED	80 KM/H	3,278	1,789	74	5,141	20.79
POSTED	60 KM/H	1,880	1,152	27	3,059	12.37
POSTED	70 KM/H	640	420	12	1,072	4.34
ADVISORY	50 KM/H	188	108	2	298	1.21
ADVISORY	60 KM/H	145	101	3	249	1.01
POSTED	30 KM/H	136	37	3	176	0.71
ADVISORY	30 KM/H	79	49	2	130	0.53
ADVISORY	40 KM/H	47	35	1	83	0.34
ADVISORY	80 KM/H	49	20	2	71	0.29
POSTED	10 KM/H	55	15	0	70	0.28
ADVISORY	70 KM/H	34	25	5	64	0.27
POSTED	40 KM/H	33	19	0	52	0.21
SPECIAL	50 KM/H	14	11	0	25	0.10
ADVISORY	20 KM/H	18	4	1	23	0.09
POSTED	20 KM/H	18	5	0	23	0.09
ADVISORY	10 KM/H	14	2	0	16	0.06
SPECIAL	80 KM/H	10	2	0	12	0.05
ADVISORY	90 KM/H	6	4	0	10	0.04
SPECIAL	10 KM/H	7	3	0	10	0.04
SPECIAL	60 KM/H	7	3	0	10	0.04
SPECIAL	30 KM/H	7	2	0	9	0.04
SPECIAL	20 KM/H	4	2	0	6	0.03
SPECIAL	70 KM/H	1	1	0	2	0.00
SPECIAL	40 KM/H	1	0	0	1	0.00
SPECIAL	90 KM/H	0	1	0	1	0.00
OTHER		570	377	14	961	3.89
UNKNOWN		1,470	441	2	1,913	7.75
TOTAL		16,256	8,190	275	24,721	100.00

SECTION 9



LICENCED DRIVERS



1988 LICENCED DRIVERS

Drivers licenced in British Columbia totalled 2,441,635 at the end of 1988. Newly licenced drivers accounted for 90,211 or 4% of this total.

Table 9.1 examines two items:

- 1) The proportion of a specific age group's involvement in accidents.
- 2) The proportion of drivers within a specific age group who are involved in accidents.

It is apparent that certain age groups are over-represented in traffic accidents.

Seventeen year old drivers, for example, made up only 1% of all licenced drivers but accounted for 3% of the total drivers involved in accidents in 1988.

As well, an unusually high proportion of seventeen year old drivers were involved in accidents - almost 20% of the total age group population.

Older age categories tend to be more evenly represented in both the driver population as a whole and the population of drivers involved in accidents.

COMPARISON OF LICENCED DRIVERS AND DRIVERS INVOLVED IN 1988 ACCIDENTS BY AGE

COMPARISON	D R I V E R A G E										
	UNK	UNDER 16	16	17	18	19	20	21-25	26-30	31-35	36-40
LICENSED DRIVERS	0	0	22,101	32,013	37,954	40,229	40,832	246,592	317,331	319,325	288,786
PERCENT OF TOTAL DRIVER POPULATION	0.0	0.0	0.91	1.31	1.55	1.65	1.67	10.10	13.00	13.08	11.82
DRIVERS INVOLVED IN ACCIDENTS	30,091	295	4,073	6,323	7,154	7,330	6,701	29,842	25,649	21,109	17,810
PERCENT OF TOTAL DRIVERS INVOLVED IN ACCIDENTS	14.24	0.14	1.93	3.00	3.39	3.47	3.17	14.12	12.14	9.99	8.43
PERCENT OF AGE GROUP DRIVER POPULATION INVOLVED IN ACCIDENTS	N/A	N/A	18.43	19.75	18.85	18.22	16.41	12.10	8.08	6.61	6.17

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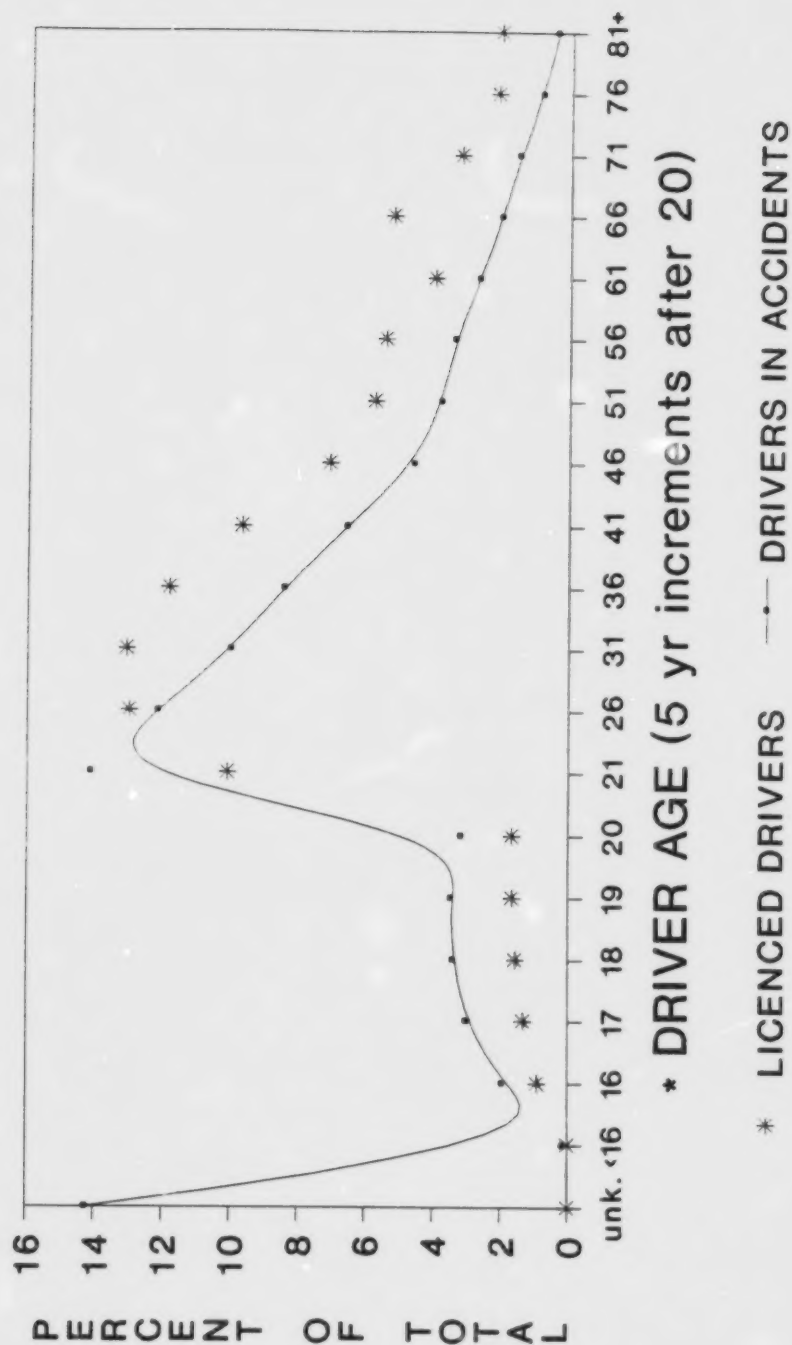
COMPARISON OF LICENCED DRIVERS AND DRIVERS INVOLVED IN 1988 ACCIDENTS BY AGE

... cont'd.

COMPARISON	D R I V E R A G E									TOTAL
	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81+	
LICENCED DRIVERS	236,583	173,790	141,217	133,888	98,023	128,587	79,676	53,501	51,207	2,441,635
PERCENT OF TOTAL DRIVER POPULATION	9.69	7.12	5.78	5.48	4.02	5.27	3.26	2.19	2.10	100 %
DRIVERS INVOLVED IN ACCIDENTS	13,907	9,746	8,063	7,234	5,676	4,340	3,262	1,806	928	211,339
PERCENT OF TOTAL DRIVERS INVOLVED IN ACCIDENTS	6.58	4.61	3.81	3.42	2.69	2.05	1.54	0.85	0.43	100 %
PERCENT OF AGE GROUP DRIVER POPULATION INVOLVED IN ACCIDENTS	5.88	5.61	5.71	5.40	5.79	3.38	4.09	3.38	1.81	8.66

ACCIDENT TYPE												
PROPERTY DAMAGE ACCIDENTS				PERSONAL INJURY ACCIDENTS				FATAL ACCIDENTS				
AGE	MALE	FEMALE	UNK.	TOTAL	MALE	FEMALE	UNK.	TOTAL	MALE	FEMALE	UNK.	TOTAL
1-5	5	1	0	6	3	0	0	3	0	0	0	0
6-10	5	4	0	9	5	1	0	6	1	0	0	1
11-15	141	43	0	184	57	25	0	82	3	1	0	4
16	2,144	846	1	2,991	723	354	0	1,077	3	2	0	5
17	3,217	1,253	3	4,473	1,240	586	1	1,827	20	3	0	23
18	3,734	1,326	4	5,064	1,461	601	3	2,065	21	4	0	25
19	3,773	1,366	2	5,141	1,528	626	0	2,154	28	7	0	35
20	3,401	1,254	2	4,657	1,416	592	1	2,009	31	4	0	35
21-25	15,336	5,842	9	21,187	6,034	2,476	5	8,515	116	24	0	140
26-30	13,130	5,415	8	18,553	4,772	2,206	3	6,981	98	17	0	115
31-35	10,476	4,839	7	15,322	3,755	1,953	2	5,710	61	16	0	77
36-40	8,705	4,334	4	13,043	3,012	1,685	2	4,699	60	8	0	68
41-45	6,829	3,299	3	10,131	2,450	1,269	3	3,722	44	10	0	54
46-50	5,024	2,079	2	7,105	1,699	907	4	2,610	25	6	0	31
51-55	4,341	1,622	0	5,963	1,457	600	1	2,058	37	5	0	42
56-60	3,852	1,461	1	5,314	1,332	555	1	1,888	26	6	0	32
61-65	3,000	1,185	1	4,186	1,004	462	0	1,466	17	7	0	24
66-70	2,235	972	0	3,207	721	387	0	1,108	17	8	0	25
71-75	1,662	735	1	2,398	564	291	0	855	6	3	0	9
76-80	1,025	341	0	1,366	304	124	0	428	8	4	0	12
81-85	411	116	0	527	160	33	0	193	4	0	0	4
86-90	106	29	0	135	34	9	0	43	2	0	0	2
91-95	9	3	0	12	4	1	0	5	1	0	0	1
OVER 95	4	1	0	5	1	0	0	1	0	0	0	0
UNKNOWN	4,022	1,377	22,288	27,687	567	215	1,605	2,387	0	0	17	17
TOTAL	96,587	39,743	22,336	158,666	34,303	15,958	1,631	51,892	629	135	17	781

DRIVERS: LICENCED VS ACCIDENT INVOLVED IN 1988 BY AGE



* Ages are in five year increments
beginning at 21.

fig. 24

DRIVER AGE BY ACCIDENT HOUR IN 1988 ACCIDENTS

ACCIDENT HOUR	DRIVER AGE								
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40
Mid. - 1 am	15	124	195	239	224	219	720	445	549
1 am - 2 am	9	75	152	223	212	175	737	510	495
2 am - 3 am	9	54	115	201	260	231	864	522	483
3 am - 4 am	10	33	67	114	151	147	454	250	230
4 am - 5 am	7	16	48	66	76	58	256	153	148
5 am - 6 am	5	20	25	36	66	49	215	174	189
6 am - 7 am	5	12	38	43	67	71	422	387	589
7 am - 8 am	2	49	101	182	161	177	984	928	1,429
8 am - 9 am	6	155	222	302	301	277	1,326	1,228	2,154
9 am - 10 am	5	80	119	170	207	207	967	983	1,677
10 am - 11 am	7	82	157	211	204	241	1,097	1,134	1,853
11 am - Noon	7	132	208	257	271	294	1,392	1,320	2,274
Noon - 1 pm	14	257	373	384	388	350	1,650	1,561	2,585
1 pm - 2 pm	13	195	305	375	402	368	1,644	1,479	2,445
2 pm - 3 pm	18	217	379	407	425	418	1,836	1,680	2,634
3 pm - 4 pm	18	415	631	556	561	501	2,140	1,940	3,231
4 pm - 5 pm	26	359	561	595	588	520	2,494	2,236	3,420
5 pm - 6 pm	17	268	478	460	552	478	2,363	2,112	3,237
6 pm - 7 pm	9	254	320	388	425	387	1,772	1,483	2,291
7 pm - 8 pm	23	261	371	385	356	337	1,423	1,152	1,660
8 pm - 9 pm	12	237	341	376	326	280	1,261	949	1,289
9 pm - 10 pm	21	278	354	339	316	263	1,186	849	1,238
10 pm - 11 pm	20	217	318	346	307	200	925	751	929
11 pm - Mid.	8	193	303	311	291	259	881	676	854
UNKNOWN	9	90	142	188	193	194	833	747	1,036
TOTAL	295	4,073	6,323	7,154	7,330	6,701	29,842	25,649	38,919

cont'd...

DRIVER AGE BY ACCIDENT HOUR IN 1988 ACCIDENTS

cont'd...

ACCIDENT HOUR	DRIVER AGE						TOTAL DRIVERS	PERCENT OF TOTAL
	41-50	51-60	61-70	71-80	81+	UNKNOWN		
Mid.- 1 am	239	109	50	15	2	584	3,729	1.76
1 am- 2 am	226	86	28	14	0	574	3,517	1.66
2 am- 3 am	201	62	23	11	1	626	3,663	1.73
3 am- 4 am	95	39	13	4	0	339	1,946	0.92
4 am- 5 am	67	36	9	4	0	157	1,101	0.52
5 am- 6 am	112	64	13	9	0	113	1,090	0.52
6 am- 7 am	372	252	86	21	1	277	2,643	1.25
7 am- 8 am	855	504	181	42	7	590	6,193	2.93
8 am- 9 am	1,301	723	332	132	17	950	9,425	4.46
9 am- 10 am	1,095	760	554	253	46	819	7,939	3.76
10 am- 11 am	1,198	944	744	455	98	1,054	9,475	4.48
11 am- Noon	1,429	1,033	914	537	92	1,319	11,479	5.43
Noon- 1 pm	1,554	1,129	833	430	97	1,407	13,012	6.16
1 pm- 2 pm	1,530	1,133	905	468	103	1,475	12,839	6.08
2 pm- 3 pm	1,664	1,196	949	583	116	1,662	14,185	6.71
3 pm- 4 pm	2,045	1,472	1,060	554	114	1,795	17,033	8.06
4 pm- 5 pm	2,259	1,484	974	468	87	1,895	17,963	8.50
5 pm- 6 pm	2,041	1,188	681	303	38	1,798	16,012	7.58
6 pm- 7 pm	1,358	805	445	196	34	1,329	11,496	5.44
7 pm- 8 pm	1,029	599	327	156	29	1,088	9,195	4.35
8 pm- 9 pm	722	406	233	110	9	958	7,509	3.55
9 pm- 10 pm	682	382	175	78	11	913	7,085	3.35
10 pm- 11 pm	519	275	164	78	15	862	5,927	2.80
11 pm- Mid.	420	207	97	36	6	795	5,337	2.53
UNKNOWN	640	409	226	111	17	6,712	11,546	5.46
TOTAL	23,653	15,297	10,016	5,068	940	30,091	211,339	100.00

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- SUNDAY -

ACCIDENT HOUR	DRIVER AGE								
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40
Mid. - 1 am	2	36	55	67	53	37	164	96	117
1 am - 2 am	2	18	38	70	51	56	191	127	114
2 am - 3 am	2	15	37	67	56	75	238	141	132
3 am - 4 am	3	7	17	38	49	42	136	60	48
4 am - 5 am	2	3	19	20	24	15	70	34	34
5 am - 6 am	0	3	9	12	20	7	61	33	24
6 am - 7 am	2	2	8	9	7	13	55	38	32
7 am - 8 am	0	4	7	15	6	11	43	36	48
8 am - 9 am	2	6	13	13	16	14	63	49	75
9 am - 10 am	1	9	14	17	12	19	85	78	99
10 am - 11 am	1	11	17	13	29	23	109	103	169
11 am - Noon	0	12	24	25	25	28	136	118	185
Noon - 1 pm	0	21	35	37	43	37	165	167	254
1 pm - 2 pm	3	28	42	48	45	42	205	158	249
2 pm - 3 pm	2	30	52	54	53	48	194	189	281
3 pm - 4 pm	4	35	54	51	58	49	197	154	265
4 pm - 5 pm	2	38	59	51	61	40	207	187	300
5 pm - 6 pm	2	29	50	56	60	42	190	203	294
6 pm - 7 pm	0	30	28	36	35	35	165	154	213
7 pm - 8 pm	3	24	43	45	33	36	152	106	177
8 pm - 9 pm	3	34	41	46	37	30	137	133	148
9 pm - 10 pm	1	20	28	24	23	28	135	83	139
10 pm - 11 pm	4	18	22	26	24	21	91	79	91
11 pm - Mid.	1	11	27	32	30	28	94	69	98
UNKNOWN	2	10	24	23	26	28	108	96	111
TOTAL	44	454	763	895	876	804	3,391	2,691	3,697

cont'd...

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- SUNDAY -

cont'd...

ACCIDENT HOUR	DRIVER AGE						TOTAL DRIVERS	PERCENT OF TOTAL
	41-50	51-60	61-70	71-80	81+	UNKNOWN		
Mid.- 1 am	47	15	10	3	1	118	821	3.74
1 am- 2 am	46	28	5	4	0	146	896	4.09
2 am- 3 am	49	10	7	3	0	165	997	4.55
3 am- 4 am	20	6	1	0	0	98	525	2.39
4 am- 5 am	12	7	0	2	0	38	280	1.28
5 am- 6 am	14	7	0	0	0	26	216	0.99
6 am- 7 am	22	16	5	2	0	25	236	1.08
7 am- 8 am	40	13	9	1	0	30	263	1.20
8 am- 9 am	44	32	15	8	3	53	406	1.85
9 am- 10 am	79	56	53	23	3	61	609	2.78
10 am- 11 am	104	67	66	31	7	102	852	3.89
11 am- Noon	123	72	62	41	7	126	984	4.49
Noon- 1 pm	165	127	91	37	11	191	1,381	6.30
1 pm- 2 pm	164	112	92	44	13	168	1,413	6.45
2 pm- 3 pm	167	107	83	41	9	146	1,457	6.64
3 pm- 4 pm	173	116	82	37	6	165	1,446	6.59
4 pm- 5 pm	192	118	73	46	7	171	1,552	7.08
5 pm- 6 pm	175	112	68	40	7	150	1,478	6.74
6 pm- 7 pm	121	79	46	21	3	135	1,101	5.02
7 pm- 8 pm	102	62	34	18	6	137	978	4.46
8 pm- 9 pm	71	39	29	14	3	116	881	4.02
9 pm- 10 pm	61	25	25	7	1	94	694	3.16
10 pm- 11 pm	56	32	20	10	2	86	582	2.65
11 pm- Mid.	30	11	12	5	0	74	522	2.38
UNKNOWN	70	38	33	16	1	768	1,354	6.18
TOTAL	2,147	1,307	921	454	90	3,389	21,924	100.00

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- MONDAY -

ACCIDENT HOUR	DRIVER AGE								
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40
Mid. - 1 am	0	6	9	21	16	16	56	35	43
1 am - 2 am	2	6	14	8	8	5	36	20	23
2 am - 3 am	0	2	4	10	4	4	20	15	20
3 am - 4 am	1	2	6	7	2	6	14	8	13
4 am - 5 am	0	0	5	3	4	3	12	14	20
5 am - 6 am	1	4	1	4	6	7	18	16	28
6 am - 7 am	0	1	4	4	11	6	62	58	98
7 am - 8 am	0	6	22	32	32	28	176	150	274
8 am - 9 am	1	17	33	52	51	47	220	222	372
9 am - 10 am	1	7	21	28	30	34	137	154	264
10 am - 11 am	3	7	17	27	19	29	134	139	211
11 am - Noon	0	14	21	33	30	39	164	177	280
Noon - 1 pm	1	38	61	49	52	38	220	205	350
1 pm - 2 pm	3	22	27	49	63	43	188	191	333
2 pm - 3 pm	4	25	46	50	57	55	244	226	359
3 pm - 4 pm	7	60	95	82	74	79	311	292	481
4 pm - 5 pm	5	49	83	99	79	68	359	329	504
5 pm - 6 pm	2	31	64	68	74	72	370	284	474
6 pm - 7 pm	3	46	44	66	60	49	256	202	315
7 pm - 8 pm	3	29	37	46	41	29	161	116	220
8 pm - 9 pm	1	31	44	51	35	36	145	88	127
9 pm - 10 pm	2	32	42	37	34	29	135	115	160
10 pm - 11 pm	0	17	34	36	38	20	111	77	96
11 pm - Mid.	0	7	23	28	26	31	81	75	86
UNKNOWN	0	8	16	20	24	30	94	88	143
TOTAL	40	467	773	910	870	803	3,724	3,296	5,294

cont'd...

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- MONDAY -

cont'd...

ACCIDENT HOUR	DRIVER AGE						TOTAL DRIVERS	PERCENT OF TOTAL
	41-50	51-60	61-70	71-80	81+	UNKNOWN		
Mid.- 1 am	22	10	2	2	0	61	299	1.08
1 am- 2 am	12	2	1	1	0	40	178	0.64
2 am- 3 am	7	4	2	1	0	25	118	0.43
3 am- 4 am	8	2	1	1	0	9	80	0.29
4 am- 5 am	13	3	1	1	0	4	83	0.30
5 am- 6 am	16	6	2	1	0	12	122	0.44
6 am- 7 am	86	46	15	3	1	42	437	1.58
7 am- 8 am	158	82	31	15	0	124	1,130	4.08
8 am- 9 am	225	121	63	20	4	130	1,578	5.69
9 am- 10 am	163	107	108	49	4	150	1,257	4.53
10 am- 11 am	140	109	96	54	8	150	1,143	4.12
11 am- Noon	177	154	129	67	12	175	1,472	5.31
Noon- 1 pm	193	134	118	49	12	203	1,723	6.21
1 pm- 2 pm	200	160	112	74	13	196	1,674	6.04
2 pm- 3 pm	209	188	135	77	10	238	1,923	6.94
3 pm- 4 pm	324	220	155	97	12	256	2,545	9.18
4 pm- 5 pm	356	218	165	70	15	264	2,663	9.60
5 pm- 6 pm	311	162	97	42	5	276	2,332	8.41
6 pm- 7 pm	183	112	68	24	4	178	1,610	5.81
7 pm- 8 pm	115	57	30	16	4	95	999	3.60
8 pm- 9 pm	78	50	23	20	2	119	850	3.07
9 pm- 10 pm	72	51	20	13	1	105	848	3.06
10 pm- 11 pm	47	52	23	6	0	96	653	2.35
11 pm- Mid.	38	30	10	3	0	93	531	1.91
UNKNOWN	72	60	33	15	2	873	1,478	5.33
TOTAL	3,225	2,140	1,440	721	109	3,914	27,726	100.00

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- TUESDAY -

ACCIDENT HOUR	DRIVER AGE								
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40
Mid. - 1 am	1	7	15	12	18	22	51	50	37
1 am - 2 am	0	3	8	8	13	9	49	44	44
2 am - 3 am	2	3	3	21	17	18	57	41	40
3 am - 4 am	1	3	10	3	6	9	34	19	24
4 am - 5 am	0	0	2	1	6	7	14	17	15
5 am - 6 am	0	0	0	1	9	2	23	18	17
6 am - 7 am	0	2	4	6	8	10	56	61	99
7 am - 8 am	0	11	16	29	39	29	196	185	260
8 am - 9 am	0	33	46	45	45	56	271	225	464
9 am - 10 am	0	13	16	28	47	55	195	198	325
10 am - 11 am	0	12	20	32	50	42	197	216	364
11 am - Noon	3	22	27	41	44	48	247	229	411
Noon - 1 pm	2	46	61	64	73	63	276	281	406
1 pm - 2 pm	0	24	44	65	59	50	228	220	340
2 pm - 3 pm	2	24	48	63	55	60	294	235	383
3 pm - 4 pm	2	80	95	75	75	74	312	309	525
4 pm - 5 pm	6	56	101	77	84	72	393	330	536
5 pm - 6 pm	2	33	79	58	78	85	345	326	462
6 pm - 7 pm	1	33	43	54	61	61	228	211	340
7 pm - 8 pm	2	33	47	33	43	49	183	132	219
8 pm - 9 pm	1	28	35	44	41	24	172	136	183
9 pm - 10 pm	2	25	36	40	45	21	118	95	148
10 pm - 11 pm	2	22	43	38	20	25	106	102	108
11 pm - Mid.	0	16	23	35	38	15	108	87	104
UNKNOWN	1	7	25	26	22	24	120	97	140
TOTAL	30	536	847	899	996	930	4,273	3,864	5,994

cont'd...

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- TUESDAY -

cont'd...

ACCIDENT HOUR	DRIVER AGE						TOTAL DRIVERS	PERCENT OF TOTAL
	41-50	51-60	61-70	71-80	81+	UNKNOWN		
Mid.- 1 am	22	16	9	1	0	55	316	1.00
1 am- 2 am	31	4	5	2	0	43	263	0.84
2 am- 3 am	15	6	3	0	0	49	275	0.88
3 am- 4 am	10	9	4	0	0	24	156	0.50
4 am- 5 am	9	3	1	0	0	13	88	0.28
5 am- 6 am	13	10	2	2	0	14	111	0.35
6 am- 7 am	48	50	14	2	0	44	404	1.29
7 am- 8 am	189	106	34	11	0	122	1,227	3.91
8 am- 9 am	229	163	55	27	5	161	1,825	5.82
9 am- 10 am	225	130	77	36	9	129	1,483	4.73
10 am- 11 am	250	183	146	88	17	193	1,810	5.77
11 am- Noon	255	182	159	99	23	208	1,998	6.37
Noon- 1 pm	228	175	135	71	13	183	2,077	6.62
1 pm- 2 pm	239	173	164	83	22	186	1,897	6.05
2 pm- 3 pm	242	187	156	103	15	253	2,120	6.76
3 pm- 4 pm	305	256	166	92	19	284	2,669	8.51
4 pm- 5 pm	362	230	157	63	9	278	2,754	8.78
5 pm- 6 pm	374	180	93	39	7	260	2,421	7.72
6 pm- 7 pm	223	114	50	23	5	176	1,623	5.18
7 pm- 8 pm	130	79	50	16	5	126	1,147	3.66
8 pm- 9 pm	85	61	31	14	1	116	972	3.10
9 pm- 10 pm	89	55	19	12	3	101	809	2.58
10 pm- 11 pm	69	29	24	11	5	88	692	2.21
11 pm- Mid.	57	21	7	2	1	92	606	1.94
UNKNOWN	91	60	30	11	4	955	1,613	5.15
TOTAL	3,790	2,482	1,591	808	163	4,153	31,356	100.00

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- WEDNESDAY -

ACCIDENT HOUR	DRIVER AGE								
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40
Mid. - 1 am	0	4	12	15	16	17	50	40	67
1 am - 2 am	3	4	7	20	21	8	64	32	47
2 am - 3 am	2	3	8	12	24	15	73	28	42
3 am - 4 am	0	3	3	7	14	10	30	14	18
4 am - 5 am	1	0	0	10	1	0	22	11	7
5 am - 6 am	1	2	1	5	6	4	17	18	29
6 am - 7 am	1	1	2	7	7	6	51	70	94
7 am - 8 am	0	7	17	30	25	24	167	164	259
8 am - 9 am	1	14	37	59	48	39	226	222	403
9 am - 10 am	1	8	23	29	21	31	150	152	250
10 am - 11 am	0	7	20	31	26	23	146	159	215
11 am - Noon	1	15	30	38	42	43	201	158	338
Noon - 1 pm	1	32	58	51	46	51	211	195	343
1 pm - 2 pm	1	23	39	44	50	56	208	182	336
2 pm - 3 pm	4	19	40	50	60	51	247	227	373
3 pm - 4 pm	0	72	86	76	92	71	296	262	443
4 pm - 5 pm	4	38	64	82	95	74	351	318	515
5 pm - 6 pm	3	29	59	51	67	66	306	307	437
6 pm - 7 pm	1	29	42	46	49	40	227	190	330
7 pm - 8 pm	0	33	46	47	51	35	208	162	206
8 pm - 9 pm	0	21	34	42	38	38	157	120	138
9 pm - 10 pm	3	34	43	34	35	27	127	95	143
10 pm - 11 pm	2	14	34	33	24	21	96	95	111
11 pm - Mid.	2	11	26	19	18	22	89	66	95
UNKNOWN	1	4	12	25	21	23	106	112	157
TOTAL	33	427	743	863	897	795	3,826	3,399	5,396

cont'd...

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- WEDNESDAY -

cont'd...

ACCIDENT HOUR	DRIVER AGE						TOTAL DRIVERS	PERCENT OF TOTAL
	41-50	51-60	61-70	71-80	81+	UNKNOWN		
Mid.- 1 am	28	9	7	1	0	57	328	1.16
1 am- 2 am	24	11	2	2	0	41	287	1.02
2 am- 3 am	25	5	4	2	0	36	279	0.99
3 am- 4 am	10	5	0	1	0	22	135	0.48
4 am- 5 am	4	2	0	0	0	13	73	0.26
5 am- 6 am	13	9	0	1	0	11	116	0.41
6 am- 7 am	61	38	15	4	0	44	401	1.42
7 am- 8 am	145	85	27	4	2	99	1,054	3.74
8 am- 9 am	261	115	54	24	0	166	1,682	5.97
9 am- 10 am	154	117	89	51	8	136	1,216	4.32
10 am- 11 am	153	136	101	70	13	130	1,235	4.38
11 am- Noon	186	137	133	97	11	185	1,619	5.74
Noon- 1 pm	220	169	121	67	14	163	1,752	6.22
1 pm- 2 pm	198	134	127	50	11	221	1,680	5.96
2 pm- 3 pm	220	163	145	92	24	213	1,939	6.88
3 pm- 4 pm	282	217	160	79	18	249	2,384	8.46
4 pm- 5 pm	323	227	135	67	18	269	2,593	9.20
5 pm- 6 pm	279	158	103	32	5	259	2,167	7.69
6 pm- 7 pm	173	117	71	26	3	197	1,541	5.47
7 pm- 8 pm	144	77	46	30	3	141	1,217	4.32
8 pm- 9 pm	104	61	35	16	0	130	931	3.30
9 pm- 10 pm	72	58	20	12	1	109	811	2.87
10 pm- 11 pm	68	31	15	14	2	100	661	2.34
11 pm- Mid.	57	23	7	5	1	105	546	1.94
UNKNOWN	107	48	38	15	3	858	1,538	5.46
TOTAL	3,311	2,152	1,455	762	137	3,954	28,185	100.00

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- THURSDAY -

ACCIDENT HOUR	DRIVER AGE								
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40
Mid. - 1 am	2	5	16	18	25	19	82	46	63
1 am - 2 am	1	5	3	12	14	24	67	52	59
2 am - 3 am	0	2	4	13	26	17	68	51	48
3 am - 4 am	1	1	4	9	3	13	33	23	26
4 am - 5 am	2	3	1	6	5	3	22	21	19
5 am - 6 am	0	0	2	0	4	8	13	26	29
6 am - 7 am	0	0	4	5	14	10	62	56	108
7 am - 8 am	0	6	10	21	19	33	153	153	265
8 am - 9 am	0	34	33	43	46	37	212	193	321
9 am - 10 am	1	13	11	26	32	27	132	133	262
10 am - 11 am	0	11	27	32	16	37	142	165	265
11 am - Noon	2	13	25	37	34	46	182	196	312
Noon - 1 pm	2	36	49	52	50	52	205	199	370
1 pm - 2 pm	0	24	26	43	44	41	230	211	327
2 pm - 3 pm	1	29	55	53	62	59	240	232	390
3 pm - 4 pm	0	59	103	89	78	61	335	300	485
4 pm - 5 pm	3	52	76	89	81	76	370	316	481
5 pm - 6 pm	4	47	61	72	86	66	368	324	545
6 pm - 7 pm	2	25	39	61	69	55	243	235	343
7 pm - 8 pm	6	42	56	64	73	54	219	204	261
8 pm - 9 pm	0	25	38	51	35	44	161	122	184
9 pm - 10 pm	2	43	44	52	46	35	181	139	193
10 pm - 11 pm	1	35	40	50	45	24	158	130	163
11 pm - Mid.	0	17	27	40	40	43	118	83	128
UNKNOWN	2	12	16	22	23	27	105	89	117
TOTAL	32	539	770	960	970	911	4,101	3,699	5,764

cont'd...

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DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- THURSDAY -

cont'd...

ACCIDENT HOUR	DRIVER AGE						TOTAL DRIVERS	PERCENT OF TOTAL
	41-50	51-60	61-70	71-80	81+	UNKNOWN		
Mid.- 1 am	22	12	9	3	0	74	396	1.30
1 am- 2 am	14	3	5	0	0	57	316	1.04
2 am- 3 am	24	10	0	2	1	55	321	1.06
3 am- 4 am	7	3	1	1	0	34	159	0.52
4 am- 5 am	7	4	2	0	0	13	108	0.36
5 am- 6 am	20	13	5	2	0	9	131	0.43
6 am- 7 am	64	23	11	6	0	53	416	1.36
7 am- 8 am	137	94	31	6	1	79	1,008	3.31
8 am- 9 am	223	102	55	24	4	179	1,506	4.96
9 am- 10 am	163	117	75	44	8	112	1,156	3.80
10 am- 11 am	157	137	105	86	15	147	1,342	4.42
11 am- Noon	216	147	122	79	20	181	1,612	5.31
Noon- 1 pm	215	173	106	69	18	213	1,809	5.96
1 pm- 2 pm	214	166	141	72	11	237	1,787	5.88
2 pm- 3 pm	230	164	134	94	16	236	1,995	6.57
3 pm- 4 pm	322	223	205	94	20	251	2,625	8.64
4 pm- 5 pm	343	247	138	64	14	282	2,632	8.67
5 pm- 6 pm	288	184	106	51	5	275	2,482	8.17
6 pm- 7 pm	201	106	75	36	7	194	1,691	5.57
7 pm- 8 pm	198	105	52	22	4	185	1,545	5.09
8 pm- 9 pm	127	60	34	12	2	132	1,027	3.38
9 pm- 10 pm	120	58	35	9	3	130	1,090	3.59
10 pm- 11 pm	103	45	27	12	2	121	956	3.15
11 pm- Mid.	74	35	17	5	1	97	725	2.39
UNKNOWN	84	68	24	18	1	932	1,540	5.07
TOTAL	3,573	2,299	1,515	811	153	4,278	30,375	100.00

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- FRIDAY -

ACCIDENT HOUR	DRIVER AGE								
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40
Mid. - 1 am	1	12	23	27	32	35	101	60	88
1 am - 2 am	1	3	12	20	24	18	107	76	82
2 am - 3 am	0	9	10	16	42	28	126	67	67
3 am - 4 am	3	2	4	9	18	23	58	44	39
4 am - 5 am	1	2	8	7	10	6	36	26	20
5 am - 6 am	0	3	2	2	5	5	34	25	28
6 am - 7 am	1	1	4	6	9	12	81	57	106
7 am - 8 am	1	6	12	38	22	36	166	176	247
8 am - 9 am	1	26	38	72	63	57	243	241	398
9 am - 10 am	0	16	16	19	41	29	160	158	269
10 am - 11 am	0	15	26	43	30	37	200	190	323
11 am - Noon	1	25	37	42	51	51	244	226	416
Noon - 1 pm	4	37	60	71	74	64	300	258	462
1 pm - 2 pm	3	35	70	53	77	72	294	279	464
2 pm - 3 pm	2	40	87	79	71	76	310	296	447
3 pm - 4 pm	3	79	120	109	99	101	400	341	605
4 pm - 5 pm	1	70	115	123	121	129	550	466	690
5 pm - 6 pm	1	50	103	91	93	86	484	410	613
6 pm - 7 pm	1	55	69	85	87	93	397	296	433
7 pm - 8 pm	5	64	76	83	65	82	288	257	348
8 pm - 9 pm	4	65	86	71	75	68	280	211	333
9 pm - 10 pm	5	75	95	101	88	74	266	195	287
10 pm - 11 pm	5	73	91	99	86	52	216	163	214
11 pm - Mid.	5	75	98	72	78	64	190	167	205
UNKNOWN	1	20	29	37	34	30	151	134	209
TOTAL	50	858	1,291	1,375	1,395	1,328	5,682	4,819	7,393

cont'd...

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- FRIDAY -

cont'd...

ACCIDENT HOUR	DRIVER AGE						TOTAL DRIVERS	PERCENT OF TOTAL
	41-50	51-60	61-70	71-80	81+	UNKNOWN		
Mid.- 1 am	31	15	7	3	0	71	506	1.27
1 am- 2 am	49	14	3	0	0	81	490	1.23
2 am- 3 am	31	12	5	1	0	102	516	1.30
3 am- 4 am	10	6	3	1	0	51	271	0.68
4 am- 5 am	8	11	4	1	0	21	161	0.41
5 am- 6 am	21	12	1	2	0	17	157	0.40
6 am- 7 am	67	60	14	3	0	45	466	1.17
7 am- 8 am	152	85	32	5	4	92	1,074	2.70
8 am- 9 am	241	134	64	17	0	168	1,763	4.43
9 am- 10 am	182	120	88	30	5	112	1,245	3.13
10 am- 11 am	218	177	120	67	20	156	1,622	4.08
11 am- Noon	246	174	172	90	9	219	2,003	5.03
Noon- 1 pm	295	200	149	80	17	217	2,288	5.75
1 pm- 2 pm	288	225	162	80	21	265	2,388	6.00
2 pm- 3 pm	311	209	162	100	23	302	2,515	6.32
3 pm- 4 pm	390	272	160	79	25	318	3,101	7.79
4 pm- 5 pm	445	290	200	95	12	381	3,688	9.27
5 pm- 6 pm	394	260	118	57	5	319	3,084	7.75
6 pm- 7 pm	260	180	72	44	6	261	2,339	5.88
7 pm- 8 pm	200	124	65	26	3	233	1,919	4.82
8 pm- 9 pm	155	80	50	16	1	200	1,695	4.26
9 pm- 10 pm	172	90	31	19	2	221	1,721	4.33
10 pm- 11 pm	111	52	29	13	4	216	1,424	3.58
11 pm- Mid.	88	49	22	6	1	157	1,277	3.21
UNKNOWN	121	82	39	20	4	1,162	2,073	5.21
TOTAL	4,486	2,933	1,772	855	162	5,387	39,786	100.00

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- SATURDAY -

ACCIDENT HOUR	DRIVER AGE								
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40
Mid. - 1 am	9	49	65	79	64	73	216	118	134
1 am - 2 am	0	35	70	85	81	55	223	159	126
2 am - 3 am	3	20	49	62	91	74	282	179	134
3 am - 4 am	1	17	23	41	59	44	149	82	62
4 am - 5 am	1	6	13	19	26	24	80	30	33
5 am - 6 am	3	9	10	12	16	16	49	38	34
6 am - 7 am	1	5	12	6	11	14	55	47	52
7 am - 8 am	1	10	17	17	18	16	83	64	76
8 am - 9 am	1	12	22	18	32	27	91	76	121
9 am - 10 am	1	18	18	23	24	12	108	110	208
10 am - 11 am	3	14	30	33	34	50	169	162	306
11 am - Noon	0	27	44	41	45	39	218	216	332
Noon - 1 pm	4	37	49	60	50	45	273	256	400
1 pm - 2 pm	3	39	57	73	64	64	291	238	396
2 pm - 3 pm	3	39	51	58	67	69	307	275	401
3 pm - 4 pm	2	49	78	74	85	66	289	282	427
4 pm - 5 pm	5	43	63	74	67	61	264	290	394
5 pm - 6 pm	3	43	62	64	94	61	300	258	412
6 pm - 7 pm	1	36	55	40	64	54	256	195	317
7 pm - 8 pm	4	48	66	67	50	52	212	175	229
8 pm - 9 pm	3	36	63	71	65	40	209	139	176
9 pm - 10 pm	6	51	66	51	45	49	224	127	168
10 pm - 11 pm	6	37	54	64	70	37	147	105	146
11 pm - Mid.	0	56	79	85	61	56	201	129	138
UNKNOWN	2	21	20	35	43	32	149	131	159
TOTAL	66	757	1,136	1,252	1,326	1,130	4,845	3,881	5,381

cont'd...

DRIVER AGE BY DAY OF THE WEEK AND ACCIDENT HOUR IN 1988 ACCIDENTS

- SATURDAY -

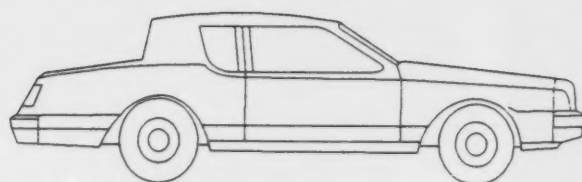
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ACCIDENT HOUR	DRIVER AGE						TOTAL DRIVERS	PERCENT OF TOTAL
	41-50	51-60	61-70	71-80	81+	UNKNOWN		
Mid.- 1 am	67	32	6	2	1	148	1,063	3.32
1 am- 2 am	50	24	7	5	1	166	1,087	3.40
2 am- 3 am	50	15	2	2	0	194	1,157	3.62
3 am- 4 am	30	8	3	0	0	101	620	1.94
4 am- 5 am	14	6	1	0	0	55	308	0.96
5 am- 6 am	15	7	3	1	0	24	237	0.74
6 am- 7 am	24	19	12	1	0	24	283	0.88
7 am- 8 am	34	39	17	0	1	44	437	1.37
8 am- 9 am	78	56	26	12	0	93	665	2.08
9 am- 10 am	129	113	64	20	6	119	973	3.04
10 am- 11 am	176	135	110	59	14	176	1,471	4.60
11 am- Noon	226	167	137	64	10	225	1,791	5.60
Noon- 1 pm	238	151	113	57	12	237	1,982	6.20
1 pm- 2 pm	227	163	107	65	11	202	2,000	6.25
2 pm- 3 pm	285	178	134	76	19	274	2,236	6.99
3 pm- 4 pm	249	168	132	76	14	272	2,263	7.07
4 pm- 5 pm	238	154	106	63	9	250	2,081	6.51
5 pm- 6 pm	220	132	96	42	2	259	2,048	6.40
6 pm- 7 pm	197	97	63	22	6	188	1,591	4.97
7 pm- 8 pm	140	95	50	28	3	171	1,390	4.35
8 pm- 9 pm	102	55	31	18	0	145	1,153	3.60
9 pm- 10 pm	96	45	25	6	0	153	1,112	3.48
10 pm- 11 pm	65	34	26	12	1	155	959	3.00
11 pm- Mid.	76	38	22	10	2	177	1,130	3.53
UNKNOWN	95	53	29	16	1	1,164	1,950	6.10
TOTAL	3,121	1,984	1,322	657	113	5,016	31,987	100.00

DRIVERS INVOLVED IN 1988 ACCIDENTS BY ROAD USER CLASS AND AGE

DRIVER AGE	VEHICLE DRIVERS	CYCLE DRIVERS	OTHER DRIVERS	TOTAL DRIVERS
1 - 5	9	39	1	49
6 - 10	16	230	5	251
11 - 15	270	464	4	738
16	4,073	95	3	4,171
17	6,323	77	0	6,400
18	7,154	88	1	7,243
19	7,330	63	0	7,393
20	6,701	69	1	6,771
21 - 25	29,842	356	2	30,200
26 - 30	25,649	242	1	25,892
31 - 35	21,109	112	8	21,229
36 - 40	17,810	76	9	17,895
41 - 45	13,907	52	5	13,964
46 - 50	9,746	22	7	9,775
51 - 55	8,063	22	6	8,091
56 - 60	7,234	15	13	7,262
61 - 65	5,676	19	1	5,296
66 - 70	4,340	7	0	4,347
71 - 75	3,262	6	4	3,272
76 - 80	1,806	5	0	1,811
81 - 85	724	1	1	726
86 - 95	198	0	1	199
OVER 95	6	0	0	6
UNKNOWN	30,091	227	101	30,419
TOTAL	211,339	2,287	174	213,800

SECTION 10



VEHICLES



VEHICLES INVOLVED IN 1988 ACCIDENTS

There were 242,885 vehicles involved in accidents in 1988, an increase of 16% from 1987. Vehicles licenced throughout the year increased by 3% from the previous year.

The number of dangerous goods carriers involved in accidents increased by 32% from 1987. The proportions of specific dangerous goods substances involved also changed: in 1987 flammable liquids carriers accounted for 37% of the total dangerous goods carriers involved, while in 1988 this number increased to 48%. Gases carriers involved increased from 16% to 44% this year, while flammable solids decreased slightly from 5% to 4% in 1988. Specified miscellaneous substances also accounted for 4% of total accidents.

There were no accidents involving explosives, corrosives, or poisonous/infectious substances in 1988.

**NUMBER OF VEHICLES INVOLVED IN ACCIDENTS
DURING 1988 BY MONTH**

MONTH	ACCIDENT TYPE			TOTAL VEHICLES
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL	
JANUARY	14,587	3,954	51	18,592
FEBRUARY	14,699	3,694	54	18,447
MARCH	14,460	3,979	58	18,497
APRIL	13,936	4,206	62	18,204
MAY	14,227	4,464	57	18,748
JUNE	14,278	4,754	95	19,127
JULY	15,321	5,063	89	20,473
AUGUST	14,994	4,916	100	20,010
SEPTEMBER	15,664	4,983	62	20,709
OCTOBER	16,933	5,088	73	22,094
NOVEMBER	18,722	5,408	63	24,193
DECEMBER	18,983	4,741	67	23,791
TOTAL	186,804	55,250	831	242,885

NOTE: This report includes vehicles, bicycles and miscellaneous unclassified entities.

NUMBER OF VEHICLES INVOLVED IN ACCIDENTS DURING 1988 BY VEHICLE TYPE

VEHICLE TYPE	ACCIDENT TYPE			TOTAL VEHICLES	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
PASSENGER CAR	128,841	39,755	455	169,051	69.60
SINGLE UNIT TRUCK, LIGHT	32,449	8,955	181	41,585	17.12
*SINGLE UNIT TRUCK, HEAVY	2,322	573	20	2,915	1.20
MOTORCYCLE	621	1,651	48	2,320	0.96
BICYCLE	356	1,927	25	2,308	0.95
*TRACTOR TRAILER	1,543	390	33	1,966	0.81
TRUCK AND CAMPER	1,354	456	3	1,813	0.75
MOTOR HOME	697	160	5	862	0.35
*HEAVY TRUCK/TRAILER	623	116	6	745	0.31
LOCAL TRANSIT BUS	465	158	6	629	0.26
LIGHT TRUCK/TRAILER	530	78	3	611	0.25
CAR & TRAILER	436	110	0	546	0.22
*LOGGING TRUCK & POLE TRAILER	368	127	11	506	0.21
*TRACTOR TRAILER & PUP	317	104	11	432	0.18
TRUCK CAMPER & TRAILER	329	91	3	423	0.17
TOW TRUCK	183	72	3	258	0.11
SCHOOL BUS	134	43	3	180	0.07
TRAILER ONLY	118	16	0	134	0.06
GENERAL CONSTRUCTION	100	21	1	122	0.05
ROAD CONSTRUCTION	56	7	1	64	0.03
MOTOR HOME & TRAILER	49	5	0	54	0.02
FARM VEHICLE	28	10	0	38	0.02
MOPED	10	19	0	29	0.01
MOBILE CRANE	9	4	0	13	0.01
ATV-ALL-TERRAIN CYCLE	2	6	3	11	0.00
ATV-SNOW MOBILE	6	5	0	11	0.00
ATV-TRAIL BIKE	0	10	1	11	0.00
ATV-DUNE BUGGY	1	0	0	1	0.00
ATV-FOUR WHEEL DRIVE	1	0	0	1	0.00
INTERCITY BUS	1	0	0	1	0.00
OTHER	188	88	5	281	0.12
UNKNOWN	14,667	293	4	14,964	6.16
TOTAL	186,804	55,250	831	242,885	100.00

*These vehicles are defined as weighing 10,900 kg or over.

NUMBER OF VEHICLES INVOLVED IN ACCIDENTS DURING 1988 BY VEHICLE USE

VEHICLE USE	ACCIDENT TYPE			TOTAL VEHICLES	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
PERSONAL	113,065	46,030	658	159,753	65.77
NOT IN USE	27,705	1,358	22	29,085	11.97
BUSINESS/COMMERCIAL	15,163	4,821	120	20,104	8.28
TAXI	820	361	4	1,185	0.49
RECREATIONAL	461	297	8	766	0.32
STOLEN	472	51	2	525	0.22
GOVERNMENT	356	90	4	450	0.19
EMERGENCY	313	111	1	425	0.17
FARM USE	100	42	0	142	0.06
TOWING/TOWED	67	14	2	83	0.03
MILITARY	45	10	0	55	0.02
DRIVER TRAINING SCHOOL	17	3	0	20	0.01
FLAMMABLE LIQUIDS	7	5	0	12	0.00
GASES	8	3	0	11	0.00
FLAMMABLE SOLIDS	0	1	0	1	0.00
SPECIFIED MISCELLANEOUS SUBSTANCES	1	0	0	1	0.00
OTHER	1,250	192	4	1,446	0.60
UNKNOWN	26,954	1,861	6	28,821	11.87
TOTAL	186,804	55,250	831	242,885	100.00

NOTE: This report includes vehicles, bicycles and miscellaneous unclassified entities.

NUMBER OF VEHICLES INVOLVED IN ACCIDENTS DURING 1988
BY DANGEROUS GOODS CARRIED

DANGEROUS GOODS CARRIED	ACCIDENT TYPE			TOTAL VEHICLES	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
FLAMMABLE LIQUIDS	7	5	0	12	48.00
GASES	8	3	0	11	44.00
FLAMMABLE SOLIDS	0	1	0	1	4.00
SPECIFIED MISCELLANEOUS SUBSTANCES	1	0	0	1	4.00
TOTAL	16	9	0	25	100.00

SECTION 11



ALCOHOL RELATED ACCIDENTS

1988 ALCOHOL RELATED ACCIDENTS

"Alcohol related accidents" as presented in these reports are those accidents where alcohol involvement was judged to be one of the major contributing factors to the accident. This is a judgement made by an attending police officer in most cases and does not rely upon breathalyzer tests, toxicology reports or other formal measures of alcohol presence. It also is not an indication of charges laid in connection to alcohol involvement.

While there was a 3% increase in alcohol related accidents in 1988, the proportion of fatalities occurring in these accidents decreased by 15%. Thirty-two percent of the 615 fatalities recorded occurred in alcohol related accidents. A total of 5,821 persons were injured and 197 persons killed in 8,531 alcohol related accidents.

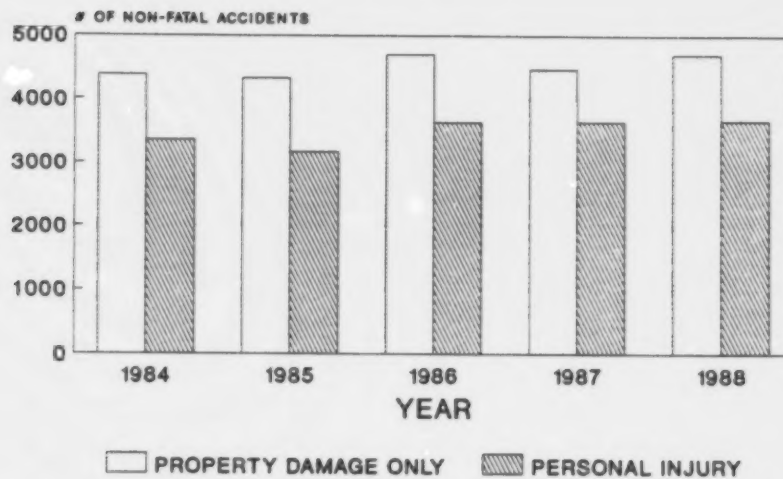
Of the drivers involved in these accidents, the highest proportion of drivers with alcohol factors was found in the 21-25 year old age group - 21%. The second highest proportion, 17%, was found in the 26-30 year old age group.

The majority of alcohol-related injuries and fatalities occurred during the summer months.

1988 ALCOHOL RELATED ACCIDENTS
ACCIDENTS AND VICTIMS BY MONTH

MONTH	ACCIDENTS				VICTIMS		
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL	TOTAL ACCIDENTS	INJURED	KILLED	TOTAL VICTIMS
JANUARY	344	225	6	575	339	8	347
FEBRUARY	348	232	11	591	372	11	383
MARCH	398	264	6	668	421	7	428
APRIL	407	306	11	724	496	15	511
MAY	391	317	25	733	516	25	541
JUNE	387	328	19	734	529	23	552
JULY	418	357	20	795	598	27	625
AUGUST	377	356	17	750	594	20	614
SEPTEMBER	363	332	17	712	544	20	564
OCTOBER	457	371	19	847	580	20	600
NOVEMBER	418	325	14	757	487	14	501
DECEMBER	391	248	6	645	345	7	352
TOTAL	4,699	3,661	171	8,531	5,821	197	6,018

FIVE YEAR SUMMARY NON-FATAL ALCOHOL RELATED ACCIDENTS (1984-1988)



FIVE YEAR SUMMARY FATAL ALCOHOL RELATED ACCIDENTS (1984-1988)

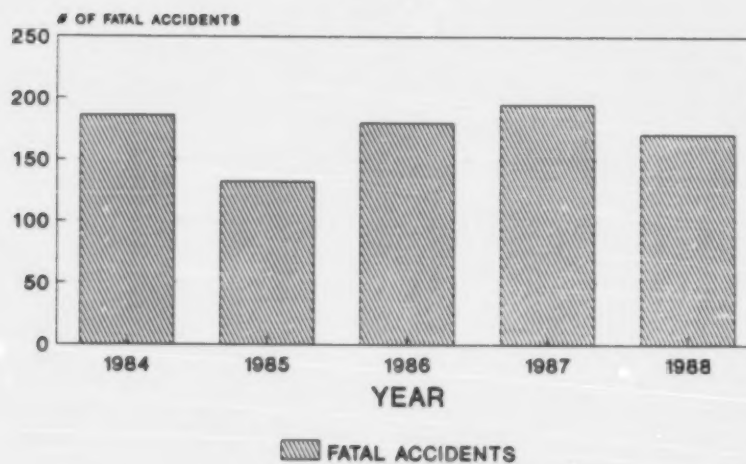


fig. 25

FIVE YEAR TREND ALCOHOL RELATED ACCIDENTS

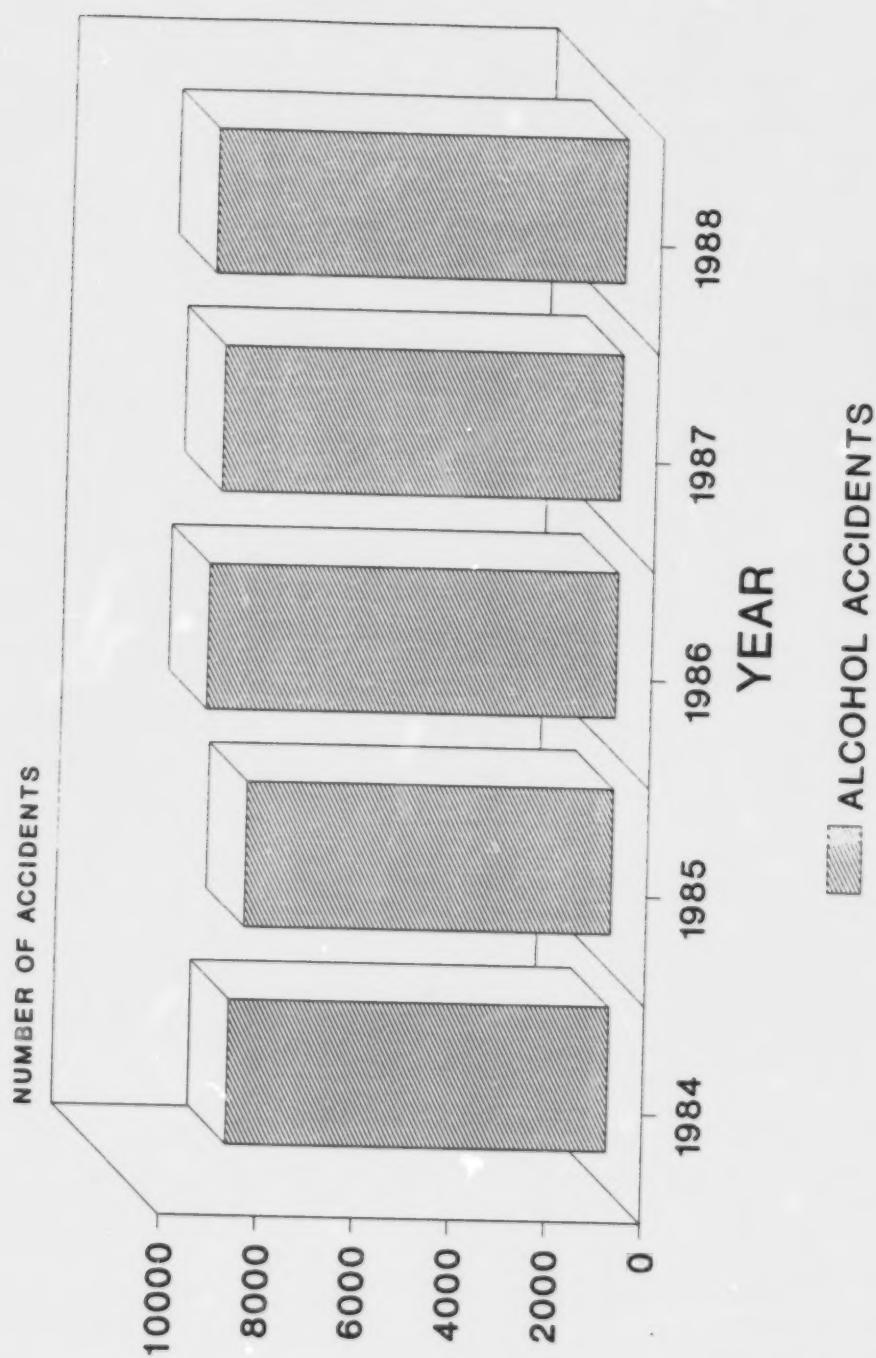


fig. 26

1988 ALCOHOL RELATED ACCIDENTS

PROPERTY DAMAGE ACCIDENTS BY DAY OF WEEK AND ACCIDENT HOUR

ACCIDENT HOUR	DAY OF WEEK							TOTAL ACCIDENTS	PERCENT OF TOTAL
	SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.		
Mid. - 1 am	67	30	33	40	37	54	110	371	7.90
1 am - 2 am	112	18	27	31	43	57	143	431	9.17
2 am - 3 am	124	16	37	34	58	76	175	520	11.07
3 am - 4 am	60	6	17	20	20	35	101	259	5.51
4 am - 5 am	43	7	7	7	11	15	49	139	2.96
5 am - 6 am	29	1	2	4	7	7	25	75	1.60
6 am - 7 am	15	1	5	3	3	8	15	50	1.06
7 am - 8 am	10	1	9	4	9	4	22	59	1.26
8 am - 9 am	13	5	4	1	4	6	17	50	1.06
9 am - 10 am	13	0	1	3	6	8	12	43	0.92
10 am - 11 am	8	1	1	1	1	5	10	27	0.57
11 am - Noon	9	2	4	3	5	9	19	51	1.09
Noon - 1 pm	12	4	3	5	5	17	17	63	1.34
1 pm - 2 pm	11	5	4	4	12	14	17	67	1.43
2 pm - 3 pm	8	7	6	8	10	13	11	63	1.34
3 pm - 4 pm	21	6	5	11	9	32	28	112	2.38
4 pm - 5 pm	17	18	16	12	14	35	24	136	2.89
5 pm - 6 pm	37	14	12	21	14	40	42	180	3.83
6 pm - 7 pm	22	18	21	19	31	42	43	196	4.17
7 pm - 8 pm	31	27	20	29	35	60	53	255	5.43
8 pm - 9 pm	46	27	26	27	32	50	54	262	5.58
9 pm - 10 pm	35	35	31	36	41	89	85	352	7.49
10 pm - 11 pm	32	38	36	43	56	80	70	355	7.55
11 pm - Mid.	37	43	43	34	59	120	83	419	8.92
UNKNOWN	28	13	12	14	14	21	62	164	3.49
TOTAL	840	343	382	414	536	897	1,287	4,699	100.00

1988 ALCOHOL RELATED ACCIDENTS
PERSONAL INJURY ACCIDENTS BY DAY OF WEEK AND ACCIDENT HOUR

ACCIDENT HOUR	DAY OF WEEK							TOTAL ACCIDENTS	PERCENT OF TOTAL
	SUN	MON	TUES	WED	THURS	FRI	SAT		
Mid. - 1 am	56	16	27	25	42	48	93	307	8.39
1 am - 2 am	88	13	26	36	37	47	108	355	9.70
2 am - 3 am	96	4	26	28	30	54	133	371	10.13
3 am - 4 am	52	8	17	9	14	25	58	183	5.00
4 am - 5 am	24	4	5	7	6	14	36	96	2.62
5 am - 6 am	35	5	5	9	3	10	30	97	2.65
6 am - 7 am	14	1	2	1	2	8	21	49	1.34
7 am - 8 am	9	2	2	0	6	3	21	43	1.17
8 am - 9 am	12	2	2	2	3	5	9	35	0.96
9 am - 10 am	6	0	0	1	0	2	9	18	0.49
10 am - 11 am	6	1	0	0	1	2	12	22	0.60
11 am - Noon	6	2	1	3	5	5	7	29	0.79
Noon - 1 pm	8	2	0	3	3	9	11	36	0.98
1 pm - 2 pm	11	2	1	7	2	12	13	48	1.31
2 pm - 3 pm	18	9	12	3	14	7	10	73	1.99
3 pm - 4 pm	7	8	12	5	9	14	22	77	2.10
4 pm - 5 pm	22	20	16	16	14	24	32	144	3.93
5 pm - 6 pm	27	8	9	17	24	32	27	144	3.93
6 pm - 7 pm	26	16	32	15	29	33	32	183	5.00
7 pm - 8 pm	33	21	19	20	26	42	44	205	5.60
8 pm - 9 pm	36	17	25	22	20	57	49	226	6.17
9 pm - 10 pm	32	25	33	26	31	65	49	261	7.13
10 pm - 11 pm	32	26	35	26	49	71	41	280	7.65
11 pm - Mid.	32	25	35	33	46	69	63	303	8.28
UNKNOWN	11	7	2	2	12	20	22	76	2.08
TOTAL	699	244	344	316	428	678	952	3,661	100.00

1988 ALCOHOL RELATED ACCIDENTS

FATAL ACCIDENTS BY DAY OF WEEK AND ACCIDENT HOUR

ACCIDENT HOUR	DAY OF WEEK							TOTAL ACCIDENTS	PERCENT OF TOTAL
	SUN	MON	TUES	WED	THURS	FRI	SAT		
Mid. - 1 am	6	0	0	0	1	2	2	11	6.43
1 am - 2 am	4	2	1	1	1	2	8	19	11.11
2 am - 3 am	9	1	0	3	2	3	5	23	13.45
3 am - 4 am	4	0	0	0	0	3	5	12	7.02
4 am - 5 am	3	0	0	0	1	1	4	9	5.26
5 am - 6 am	3	0	2	0	1	1	2	9	5.26
6 am - 7 am	0	0	0	0	0	1	1	2	1.17
7 am - 8 am	0	0	1	0	0	0	0	1	0.58
8 am - 9 am	0	0	0	0	1	0	0	1	0.58
9 am - 10 am	0	0	0	0	0	0	2	2	1.17
10 am - 11 am	0	0	0	1	1	1	0	3	1.75
11 am - Noon	0	0	0	0	0	0	0	0	0.00
Noon - 1 pm	0	0	0	0	0	1	0	1	0.58
1 pm - 2 pm	0	0	1	0	1	0	0	2	1.17
2 pm - 3 pm	1	1	0	2	1	1	0	6	3.51
3 pm - 4 pm	0	2	0	0	0	1	1	4	2.34
4 pm - 5 pm	2	0	0	1	1	2	1	7	4.09
5 pm - 6 pm	0	0	1	0	0	1	1	3	1.75
6 pm - 7 pm	1	2	0	1	1	1	1	7	4.09
7 pm - 8 pm	1	0	1	0	0	0	1	3	1.75
8 pm - 9 pm	2	0	2	0	0	2	1	7	4.09
9 pm - 10 pm	0	2	2	1	1	5	1	12	7.02
10 pm - 11 pm	0	0	1	1	4	3	1	10	5.85
11 pm - Mid.	0	2	1	0	3	6	2	14	8.19
UNKNOWN	0	1	0	0	1	0	1	3	1.75
TOTAL	36	13	13	11	21	37	40	171	100.00

1988 ALCOHOL RELATED ACCIDENTS
ALL ACCIDENTS BY DAY OF WEEK AND ACCIDENT HOUR

ACCIDENT HOUR	DAY OF WEEK							TOTAL ACCIDENTS	PERCENT OF TOTAL
	SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.		
Mid. - 1 am	129	46	60	65	80	104	205	689	8.08
1 am - 2 am	204	33	54	68	81	106	259	805	9.44
2 am - 3 am	229	21	63	65	90	133	313	914	10.71
3 am - 4 am	116	14	34	29	34	63	164	454	5.32
4 am - 5 am	70	11	12	14	18	30	89	244	2.86
5 am - 6 am	67	6	9	13	11	18	57	181	2.12
6 am - 7 am	29	2	7	4	5	17	37	101	1.18
7 am - 8 am	19	3	12	4	15	7	43	103	1.21
8 am - 9 am	25	7	6	3	8	11	26	86	1.01
9 am - 10 am	19	0	1	4	6	10	23	63	0.74
10 am - 11 am	14	2	1	2	3	8	22	52	0.61
11 am - Noon	15	4	5	6	10	14	26	80	0.94
Noon - 1 pm	20	6	3	8	8	27	28	100	1.17
1 pm - 2 pm	22	7	6	11	15	26	30	117	1.37
2 pm - 3 pm	27	17	18	13	25	21	21	142	1.66
3 pm - 4 pm	28	16	17	16	18	47	51	193	2.26
4 pm - 5 pm	41	38	32	29	29	61	57	287	3.36
5 pm - 6 pm	64	22	22	38	38	73	70	327	3.83
6 pm - 7 pm	49	36	53	35	61	76	76	386	4.52
7 pm - 8 pm	65	48	40	49	61	102	98	463	5.43
8 pm - 9 pm	84	44	53	49	52	109	104	495	5.80
9 pm - 10 pm	67	62	66	63	73	159	135	625	7.33
10 pm - 11 pm	64	64	72	70	109	154	112	645	7.56
11 pm - Mid.	69	70	79	67	108	195	148	736	8.63
UNKNOWN	39	21	14	16	27	41	85	243	2.85
TOTAL	1,575	600	739	741	985	1,612	2,279	8,531	100.00

1988 ALCOHOL RELATED ACCIDENTS BY DAY OF WEEK

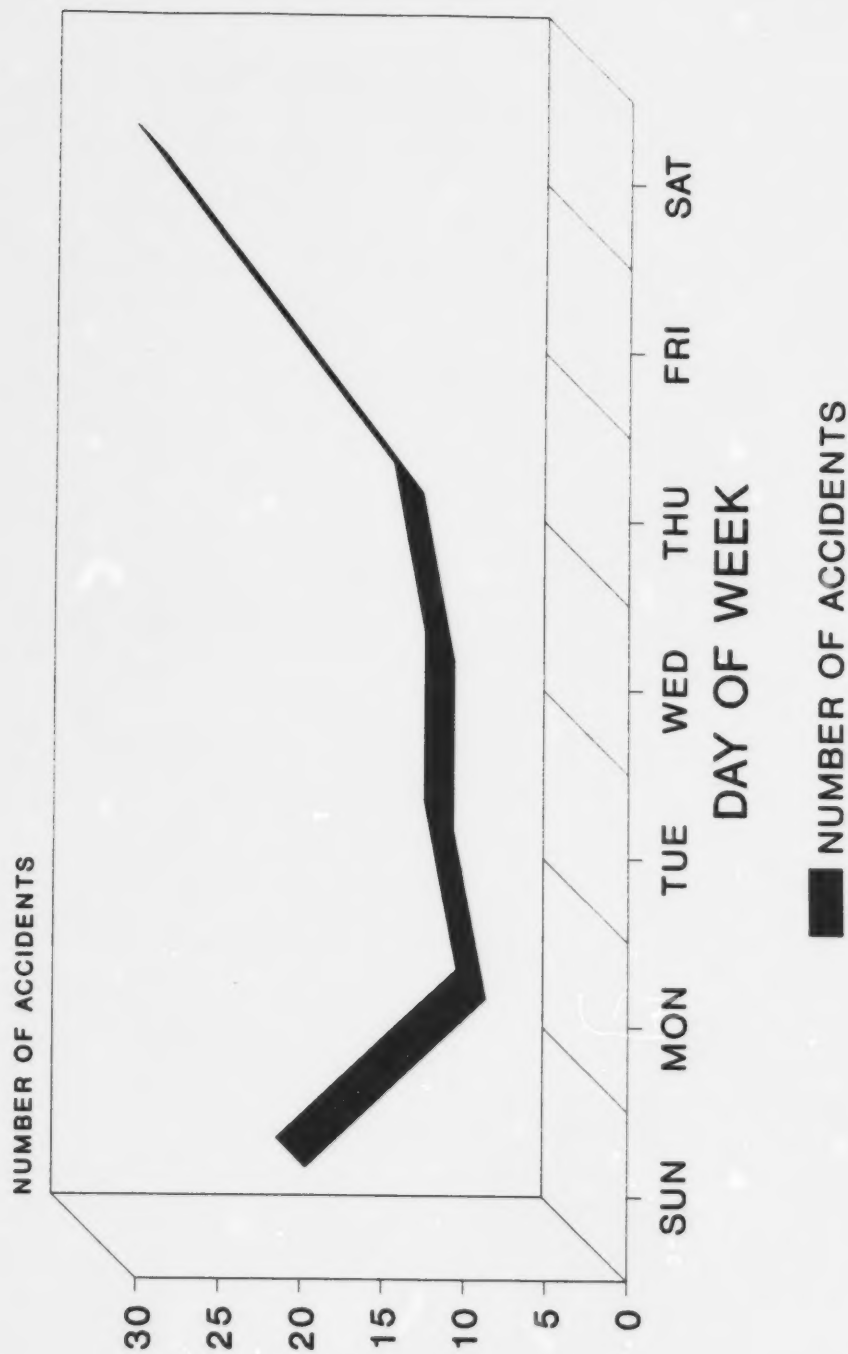


fig. 27

1988 ALCOHOL RELATED ACCIDENTS BY ACCIDENT HOUR

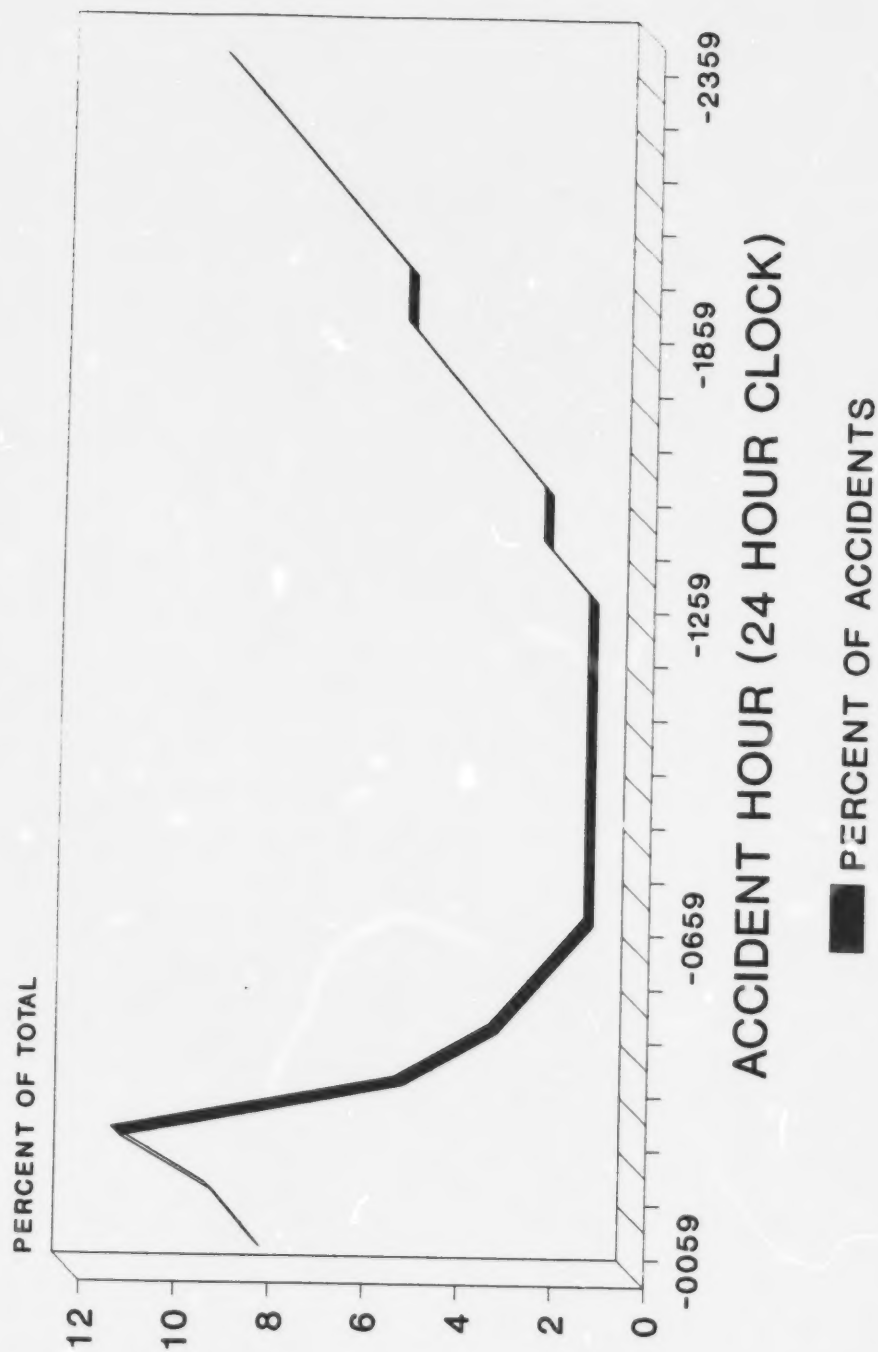


fig. 28

1988 ALCOHOL RELATED ACCIDENTS
DRIVER AGE BY ACCIDENT TYPE

- ALL DRIVERS INVOLVED -

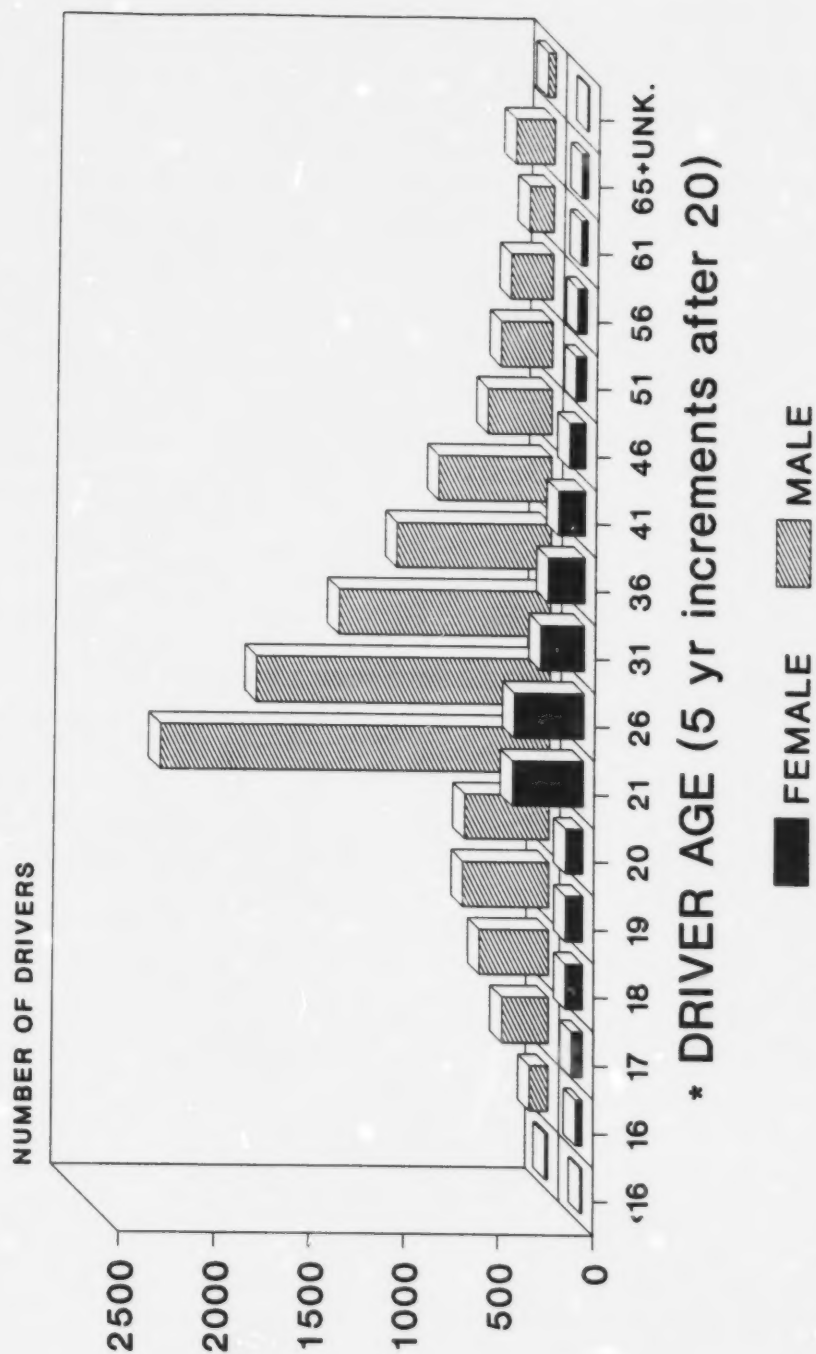
DRIVER AGE	ACCIDENT TYPE			TOTAL DRIVERS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
1 - 5	0	0	0	0	0.00
6 - 10	0	0	0	0	0.00
11 - 15	12	11	0	22	0.19
16	75	55	2	132	1.14
17	144	152	8	304	2.61
18	252	196	9	457	3.93
19	284	244	18	546	4.69
20	265	263	11	539	4.63
21 - 25	1,268	1,121	51	2,439	20.96
26 - 30	995	883	49	1,927	16.50
31 - 35	726	608	20	1,354	11.63
36 - 40	563	429	23	1,015	8.72
41 - 45	370	353	17	740	6.36
46 - 50	214	205	7	426	3.66
51 - 55	162	161	5	328	2.82
56 - 60	141	125	5	272	2.33
61 - 65	82	78	2	162	1.39
66 - 70	62	54	0	119	1.02
71 - 75	42	35	1	78	0.68
76 - 80	18	15	0	33	0.28
81 - 85	2	3	0	6	0.05
OVER 85	2	1	0	3	0.03
UNKNOWN	545	191	7	743	6.38
TOTAL	6,223	5,183	239	11,645	100.00

1988 ALCOHOL RELATED ACCIDENTS
DRIVER AGE BY ACCIDENT TYPE

- DRIVERS WITH ALCOHOL FACTOR ONLY -

DRIVER AGE	ACCIDENT TYPE			TOTAL DRIVERS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
1 - 5	0	0	0	0	0.00
6 - 10	0	0	0	0	0.00
11 - 15	10	11	0	21	0.25
16	53	39	1	93	1.42
17	87	97	6	190	2.25
18	183	142	7	332	3.93
19	227	172	16	415	4.91
20	213	197	9	419	4.97
21 - 25	997	807	40	1,844	21.85
26 - 30	792	665	35	1,492	17.67
31 - 35	548	439	15	1,002	11.87
36 - 40	400	273	11	684	8.10
41 - 45	242	192	9	443	5.25
46 - 50	144	126	5	275	3.26
51 - 55	109	79	1	189	2.24
56 - 60	89	65	3	157	1.86
61 - 65	59	49	0	108	1.28
66 - 70	39	30	2	71	0.84
71 - 75	25	16	0	41	0.49
76 - 80	11	4	0	15	0.18
81 - 85	0	0	1	1	0.01
OVER 85	2	0	0	2	0.02
UNKNOWN	501	141	3	645	7.64
TOTAL	4,731	3,544	164	8,439	100.00

DRIVERS WITH ALCOHOL FACTOR INVOLVED IN 1988 ACCIDENTS



* DRIVER AGE (5 yr increments after 20)

* Ages are in five year increments beginning at 21.

fig. 29

1988 ALCOHOL RELATED ACCIDENTS
VICTIMS INJURED BY VICTIM AGE AND ROAD USER CLASS

VICTIM AGE	DRIVER	PASSENGER	BICYCLIST	PEDESTRIAN	M/C DRIVER	M/C PASSENGER	UNKNOWN/ OTHER	TOTAL INJURED	PERCENT OF TOTAL
1	0	6	0	1	0	0	0	7	0.12
2	0	6	0	1	0	0	0	7	0.12
3	1	7	0	1	0	0	0	9	0.16
4	0	2	0	0	0	0	0	2	0.03
5	0	3	0	0	0	0	0	3	0.05
6 - 10	0	58	2	3	0	0	1	64	1.10
11 - 15	6	104	3	11	0	1	2	129	2.22
16	29	80	2	10	2	3	2	129	2.22
17	101	128	1	3	2	2	3	242	4.16
18	138	150	2	11	3	5	4	317	5.45
19	163	151	0	14	8	2	3	344	5.90
20	168	136	2	9	10	3	4	334	5.74
21 - 25	720	462	16	44	10	17	16	1,322	22.71
26 - 30	498	250	11	42	47	7	8	850	14.60
31 - 35	364	141	3	23	34	3	8	572	9.83
36 - 40	249	92	3	18	30	1	8	383	6.58
41 - 45	178	60	0	20	18	0	2	268	4.60
46 - 50	115	44	0	8	9	1	1	175	3.00
51 - 55	100	24	2	8	3	1	4	136	2.34
56 - 60	69	34	0	14	0	0	1	119	2.04
61 - 65	36	21	0	9	0	0	2	66	1.13
66 - 70	30	15	1	4	0	0	0	51	0.88
71 - 75	23	14	0	2	1	0	1	41	0.71
76 - 80	9	3	0	1	0	0	1	14	0.24
81 - 85	1	2	0	0	0	0	1	3	0.05
OVER 85	1	2	0	1	0	0	0	4	0.07
UNKNOWN	22	192	1	11	0	1	3	230	3.95
TOTAL	3,021	2,187	49	269	177	47	71	5,821	100.00

1988 ALCOHOL RELATED ACCIDENTS
VICTIMS KILLED BY VICTIM AGE AND ROAD USER CLASS

VICTIM AGE	DRIVER	PASSENGER	BICYCLIST	PEDESTRIAN	M/C DRIVER	M/C PASSENGER	UNKNOWN/ OTHER	TOTAL KILLED	PERCENT OF TOTAL
1	0	0	0	0	0	0	0	0	0.00
2	0	0	0	0	0	0	0	0	0.00
3	0	0	0	0	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0.00
5	0	0	0	0	0	0	0	0	0.00
6 - 10	0	0	0	1	0	0	0	1	0.51
11 - 15	0	3	1	0	0	0	0	4	2.03
16	2	1	0	0	1	0	0	4	2.03
17	4	5	0	1	0	0	0	10	5.07
18	3	3	0	1	1	0	0	8	4.06
19	7	9	0	0	2	0	0	18	9.14
20	2	1	1	0	1	1	1	6	3.04
21 - 25	27	15	0	2	2	0	1	48	24.36
26 - 30	20	7	0	1	5	0	2	35	17.76
31 - 35	5	1	0	0	0	0	2	8	4.06
36 - 40	7	3	0	4	2	0	0	16	8.12
41 - 45	9	5	0	0	0	0	0	14	7.11
46 - 50	1	0	0	2	0	0	0	3	1.52
51 - 55	2	0	0	2	0	0	0	4	2.30
56 - 60	2	0	0	2	0	0	1	5	2.54
61 - 65	1	1	0	0	0	0	0	2	1.02
66 - 70	1	2	0	2	0	0	0	5	2.54
71 - 75	0	0	0	0	0	0	0	0	0.00
76 - 80	0	1	0	0	0	0	1	2	1.02
81 - 85	1	0	0	1	0	0	0	2	1.02
OVER 85	0	1	0	1	0	0	0	2	1.02
UNKNOWN	0	0	0	0	0	0	0	0	0.00
TOTAL	94	58	2	20	14	1	8	197	100.00

1988 ALCOHOL RELATED ACCIDENTS
VICTIMS INJURED BY VICTIM AGE AND ROAD USER CLASS

- VICTIMS IN DRINKING DRIVERS VEHICLE ONLY -

VICTIM AGE	DRIVER	PASSENGER	BICYCLIST	PEDESTRIAN	M/C DRIVER	M/C PASSENGER	UNKNOWN/ OTHER	TOTAL KILLED	PERCENT OF TOTAL
1	0	1	0	0	0	0	0	1	0.02
2	0	1	0	0	0	0	0	1	0.02
3	0	3	0	1	0	0	0	4	0.10
4	0	2	0	0	0	0	0	2	0.05
5	0	3	0	0	0	0	0	3	0.07
6 - 10	0	23	0	0	0	0	1	24	0.57
11 - 15	6	71	0	0	2	1	2	82	1.96
16	24	63	0	2	2	2	3	96	2.30
17	67	107	1	1	3	2	4	185	4.42
18	100	112	2	4	7	5	3	233	5.57
19	123	111	0	6	8	2	4	254	6.07
20	139	105	0	7	10	3	5	269	6.43
21 - 25	554	352	6	28	38	15	15	1,008	24.10
26 - 30	389	200	9	31	29	7	8	673	16.09
31 - 35	270	100	2	17	27	3	7	426	10.19
36 - 40	173	66	3	11	13	1	2	269	6.43
41 - 45	108	37	0	11	8	0	1	165	3.95
46 - 50	71	14	0	5	3	1	3	97	2.32
51 - 55	52	10	1	5	0	1	0	69	1.65
56 - 60	34	15	0	13	0	0	1	63	1.51
61 - 65	22	12	0	7	0	0	0	41	0.98
66 - 70	15	5	1	3	0	0	0	24	0.57
71 - 75	12	3	0	1	1	0	0	17	0.42
76 - 80	2	2	0	0	0	0	0	4	0.10
81 - 85	0	1	0	0	0	0	0	1	0.02
OVER 85	0	2	0	0	0	0	0	2	0.05
UNKNOWN	21	142	0	3	0	0	3	169	4.04
TOTAL	2,182	1,563	25	156	151	43	62	4,182	100.00

1988 ALCOHOL RELATED ACCIDENTS
VICTIMS KILLED BY VICTIM AGE AND ROAD USER CLASS

- VICTIMS IN DRINKING DRIVERS VEHICLE ONLY -

VICTIM AGE	DRIVER	PASSENGER	BICYCLIST	PEDESTRIAN	M/C DRIVER	M/C PASSENGER	UNKNOWN/ OTHER	TOTAL KILLED	PERCENT OF TOTAL
1	0	0	0	0	0	0	0	0	0.00
2	0	0	0	0	0	0	0	0	0.00
3	0	0	0	0	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0.00
5	0	0	0	0	0	0	0	0	0.00
6 - 10	0	0	0	0	0	0	0	0	0.00
11 - 15	0	3	0	0	0	0	0	3	1.86
16	2	1	0	1	0	0	0	3	1.86
17	3	5	0	1	0	0	0	9	5.59
18	2	3	0	0	0	0	0	7	4.35
19	7	9	0	0	0	0	0	18	11.18
20	2	1	0	0	0	0	0	5	3.11
21 - 25	22	14	1	1	1	0	1	40	24.85
26 - 30	17	7	0	0	0	0	1	31	19.26
31 - 35	4	1	0	2	0	1	2	7	4.35
36 - 40	7	3	0	0	0	0	0	13	8.07
41 - 45	7	4	0	0	0	0	0	11	6.83
46 - 50	1	0	0	1	0	0	0	1	0.62
51 - 55	1	0	0	1	0	0	0	2	1.24
56 - 60	2	0	0	0	0	0	0	3	1.86
61 - 65	0	1	0	2	0	0	0	1	0.62
66 - 70	1	2	0	0	0	0	0	5	3.11
71 - 75	0	0	0	0	0	0	0	0	0.00
76 - 80	0	0	0	0	0	0	1	1	0.62
81 - 85	1	0	0	0	0	0	0	1	0.62
OVER 85	0	0	0	0	0	0	0	0	0.00
UNKNOWN	0	0	0	0	0	0	0	0	0.00
TOTAL	79	54	1	10	1	1	6	161	100.00

VICTIMS INJURED BY VICTIM AGE BY ROAD USER CLASS
IN 1988 ALCOHOL RELATED ACCIDENTS

- VICTIMS NOT IN DRINKING DRIVER'S VEHICLE ONLY -

VICTIM AGE	DRIVER	PASSENGER	BICYCLIST	PEDESTRIAN	M/C DRIVER	M/C PASSENGER	UNKNOWN/ OTHER	TOTAL INJURED	PERCENT OF TOTAL
1	0	5	0	1	0	0	0	6	0.36
2	0	5	0	1	0	0	0	6	0.36
3	1	4	0	0	0	0	0	5	0.30
4	0	0	0	0	0	0	0	0	0.00
5	0	0	0	0	0	0	0	0	0.00
6 - 10	0	35	2	3	0	0	0	40	2.44
11 - 15	0	33	3	11	0	0	0	47	2.87
16	5	17	2	8	0	1	0	33	2.02
17	34	21	0	2	0	0	0	57	3.48
18	38	38	0	7	0	0	0	84	5.13
19	40	40	0	8	1	0	0	90	5.49
20	29	31	2	2	0	0	0	65	3.97
21 - 25	166	110	10	16	9	2	1	314	19.16
26 - 30	109	50	2	11	5	0	0	177	10.80
31 - 35	94	41	1	6	3	0	1	146	8.91
36 - 40	76	26	0	7	5	0	0	114	6.96
41 - 45	70	23	0	9	1	0	0	103	6.28
46 - 50	44	30	0	3	0	0	1	78	4.76
51 - 55	48	14	1	3	0	0	1	67	4.09
56 - 60	35	19	0	1	0	0	1	56	3.42
61 - 65	14	9	0	2	0	0	0	25	1.52
66 - 70	15	10	0	1	0	0	1	27	1.65
71 - 75	11	11	0	1	0	0	1	24	1.46
76 - 80	7	1	0	1	0	0	1	10	0.61
81 - 85	1	1	0	0	0	0	0	2	0.12
OVER 85	1	0	0	1	0	0	0	2	0.12
UNKNOWN	1	50	1	8	0	1	0	61	3.72
TOTAL	839	624	24	113	26	4	9	1,639	100.00

VICTIMS KILLED BY VICTIM AGE BY ROAD USER CLASS
IN 1988 ALCOHOL RELATED ACCIDENTS

- VICTIMS NOT IN DRINKING DRIVER'S VEHICLE ONLY -

VICTIM AGE	DRIVER	PASSENGER	BICYCLIST	PEDESTRIAN	M/C DRIVER	M/C PASSENGER	UNKNOWN/ OTHER	TOTAL INJURED	PERCENT OF TOTAL
1	0	0	0	0	0	0	0	0	0.00
2	0	0	0	0	0	0	0	0	0.00
3	0	0	0	0	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0.00
5	0	0	0	0	0	0	0	0	0.00
6 - 10	0	0	0	1	0	0	0	1	2.78
11 - 15	0	0	1	0	0	0	0	1	2.78
16	0	0	0	0	1	0	0	1	2.78
17	1	0	0	0	0	0	0	1	2.78
18	1	0	0	0	0	0	0	1	2.78
19	0	0	0	0	0	0	0	0	0.00
20	0	0	0	0	0	0	0	0	0.00
21 - 25	5	1	0	1	1	0	1	8	22.23
26 - 30	3	0	0	0	0	0	0	3	11.11
31 - 35	1	0	0	0	0	0	0	1	2.78
36 - 40	0	0	0	0	0	0	0	0	0.00
41 - 45	2	1	0	2	1	0	0	3	8.33
46 - 50	0	0	0	0	0	0	0	0	0.00
51 - 55	1	0	0	1	0	0	1	2	5.55
56 - 60	0	0	0	1	0	0	1	2	5.55
61 - 65	1	0	0	0	0	0	0	1	2.78
66 - 70	0	0	0	0	0	0	0	0	0.00
71 - 75	0	0	0	0	0	0	1	0	0.00
76 - 80	0	1	0	0	0	0	1	1	2.78
81 - 85	0	0	0	1	0	0	0	1	2.78
OVER 85	0	1	0	1	0	0	0	2	5.55
UNKNOWN	0	0	0	0	0	0	0	0	0.00
TOTAL	15	4	1	10	4	0	9	36	100.00

VICTIMS INJURED IN ALCOHOL ACCIDENTS IN/NOT IN DRINKING DRIVERS VEHICLE

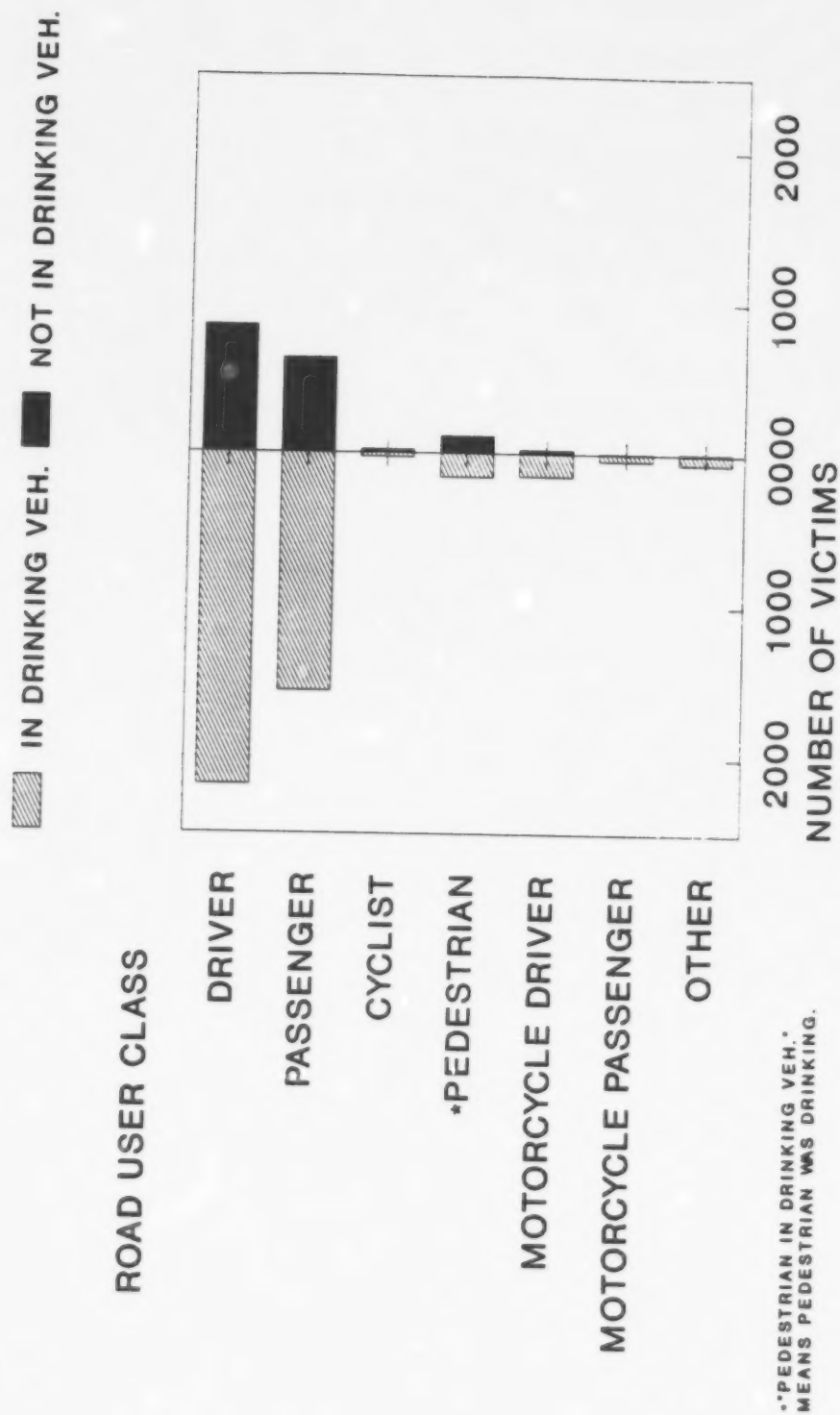


fig. 30

VICTIMS KILLED IN ALCOHOL ACCIDENTS IN/NOT IN DRINKING DRIVERS VEHICLE

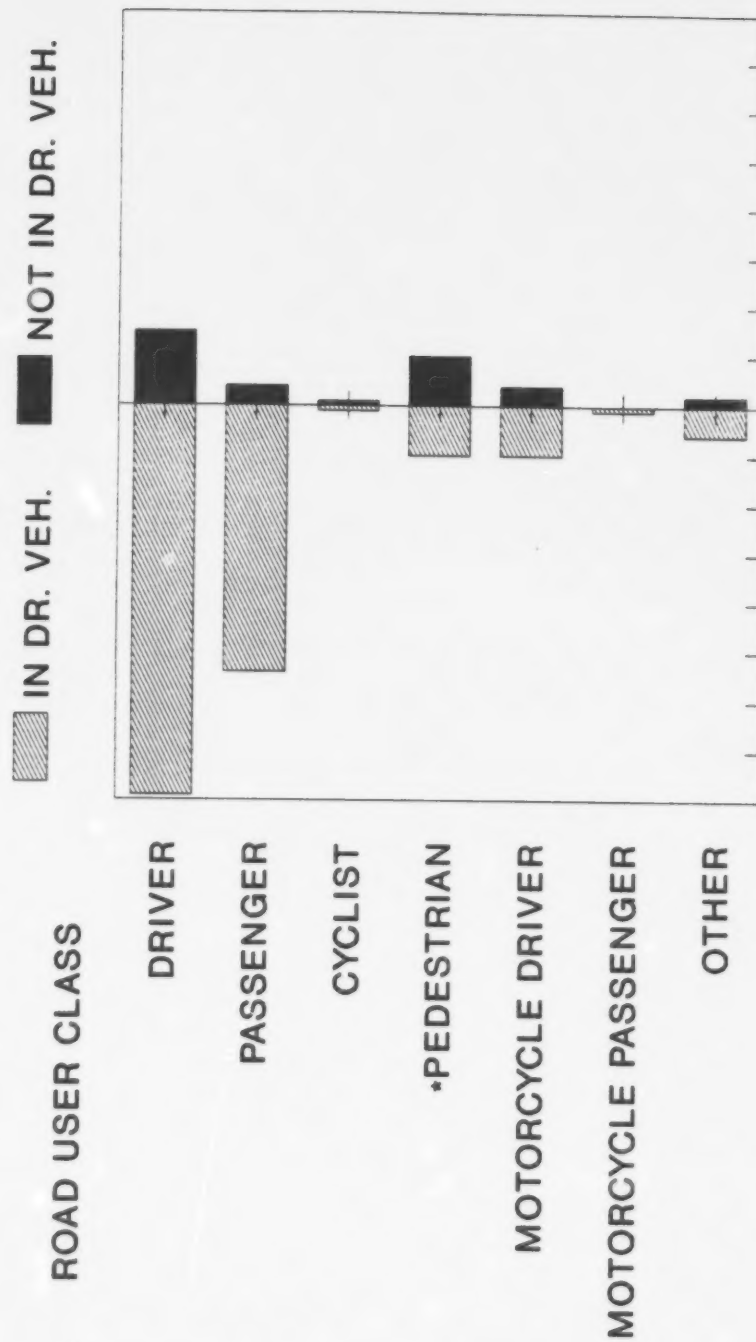
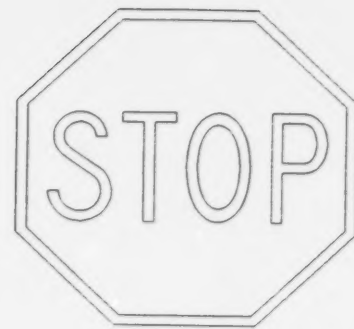


fig. 31

PEDESTRIAN IN DRINKING VEH.
MEANS PEDESTRIAN WAS DRINKING.

8070605040302010 0 1020304050607080
NUMBER OF VICTIMS

SECTION 12



MOTORCYCLE ACCIDENTS

1988 MOTORCYCLE ACCIDENTS

There were 66,055 motorcycles licenced in 1988, a 14% decrease from 1987.

During this period, drivers licenced to drive motorcycles (class 6) totalled 173,544, a 4% increase from the previous year.

Motorcycle drivers injured totalled 1,580 in 1988, a decrease of 17% from 1987, while motorcycle passengers injured totalled 243 in 1988, a decrease of 77 persons or 24%.

Forty-six motorcycle drivers and 1 motorcycle passenger were fatally injured in 1988 while during the previous year, 60 motorcycle drivers and 8 motorcycle passengers were killed.

The major contributing factors assigned to motorcycle drivers in accidents in 1988 were driving without due care; unsafe speed; alcohol involvement and driver inexperience. These proportions remained unchanged from the previous year.

1988 MOTORCYCLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
- ALL DRIVERS/VEHICLES INVOLVED -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
FAILING TO YIELD RIGHT OF WAY	56	314	8	378	17.41
DRIVING WITHOUT DUE CARE	68	294	10	372	17.13
ALCOHOL INVOLVEMENT	29	159	14	202	9.30
DRIVING AT UNSAFE SPEED	18	155	15	188	8.66
DRIVER INEXPERIENCE	14	134	1	149	6.86
FOLLOWING TOO CLOSELY	14	79	0	93	4.28
AVOIDING VEH/PED/CYCLE	19	54	0	73	3.36
IMPROPER PASSING	8	60	1	69	3.18
OBSTRUCTION/DEBRIS ON ROAD	6	46	0	52	2.40
BACKING UNSAFELY	32	10	0	42	1.93
IGNORING TRAFFIC CONTROL DEVICE	7	33	1	41	1.89
IMPROPER TURNING	3	38	0	41	1.89
CUTTING IN	10	26	0	36	1.66
WILD ANIMAL	4	29	0	33	1.52
WEATHER CONDITION	8	22	1	31	1.43
VISIBILITY IMPAIRED	3	22	2	27	1.24
DOMESTIC ANIMAL	3	22	1	26	1.20
DRIVING ON WRONG SIDE OF ROAD	3	14	0	17	0.78
FAILING TO SIGNAL	1	14	0	15	0.69
DEFECTIVE TIRES	3	10	0	13	0.60
PAVEMENT CONDITION	4	9	0	13	0.60
ROAD MAINTENANCE/CONSTRUCTION	5	8	0	13	0.60
DEFECTIVE HEADLIGHTS	0	5	2	7	0.32
DEFECTIVE STEERING	1	5	0	6	0.28
DEFECTIVE BRAKES	2	3	0	5	0.23
SUNLIGHT GLARE	0	5	0	5	0.23
ROAD/INTERSECTION DESIGN	1	4	0	5	0.23
OTHER	42	177	0	219	10.09
TOTAL	364	1,751	56	2,171	100.00

NOTE: "OTHER" includes factors with less than 5 occurrences.

1988 MOTORCYCLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
- MOTORCYCLE DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	43	201	9	253	18.37
DRIVING AT UNSAFE SPEED	17	151	13	181	13.14
ALCOHOL INVOLVEMENT	13	130	10	153	11.11
DRIVER INEXPERIENCE	12	125	1	138	10.02
AVOIDING VEH/PED/CYCLE	17	52	0	69	5.01
FAILING TO YIELD RIGHT OF WAY	16	50	2	68	4.94
FOLLOWING TOO CLOSELY	9	52	0	61	4.43
IMPROPER PASSING	7	53	1	61	4.43
OBSTRUCTION/DEBRIS ON ROAD	6	43	0	49	3.56
WILD ANIMAL	4	29	0	33	2.40
DOMESTIC ANIMAL	3	22	1	26	1.89
WEATHER CONDITION	5	10	1	25	1.82
IGNORING TRAFFIC CONTROL DEVICE	3	19	1	23	1.67
PAVEMENT CONDITION	4	9	0	13	0.94
DEFECTIVE TIRES	3	9	0	12	0.87
ROAD MAINTENANCE/CONSTRUCTION	4	7	0	11	0.80
CUTTING IN	4	6	0	10	0.73
VISIBILITY IMPAIRED	1	9	0	10	0.73
DRIVING ON WRONG SIDE OF ROAD	1	7	0	8	0.58
IMPROPER TURNING	1	7	0	8	0.58
DEFECTIVE STEERING	1	5	0	6	0.44
FAILING TO SIGNAL	0	6	0	6	0.44
OTHER	19	132	2	153	8.85
TOTAL	193	1,143	41	1,377	100.00

NOTE: "OTHER" includes factors with 5 or less occurrences.

1988 MOTORCYCLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
- OTHER DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
FAILING TO YIELD RIGHT OF WAY	40	264	6	310	39.04
DRIVING WITHOUT DUE CARE	25	93	1	119	14.99
ALCOHOL INVOLVEMENT	16	29	4	49	6.17
BACKING UNSAFELY	32	9	0	41	5.16
IMPROPER TURNING	2	31	0	33	4.16
FOLLOWING TOO CLOSELY	5	27	0	32	4.03
CUTTING IN	6	20	0	26	3.27
IGNORING TRAFFIC CONTROL DEVICE	4	14	0	18	2.27
VISIBILITY IMPAIRED	2	13	2	17	2.14
DRIVER INEXPERIENCE	2	9	0	11	1.39
DRIVING ON WRONG SIDE OF ROAD	2	7	0	9	1.13
FAILING TO SIGNAL	1	8	0	9	1.13
IMPROPER PASSING	1	7	0	8	1.01
DRIVING AT UNSAFE SPEED	1	4	2	7	0.88
WEATHER CONDITION	3	3	0	6	0.76
AVOIDING VEH/PED/CYCLE	2	2	0	4	0.50
DEFECTIVE BRAKES	2	2	0	4	0.50
DEFECTIVE TURN SIGNALS	2	1	0	3	0.38
OBSTRUCTION/DEBRIS ON ROAD	0	3	0	3	0.38
SUNLIGHT GLARE	1	2	0	3	0.38
DEFECTIVE BRAKELIGHTS	0	2	0	2	0.25
DEFECTIVE HEADLIGHTS	0	2	0	2	0.25
NO DRIVER	2	0	0	2	0.25
ROAD MAINTENANCE/ CONSTRUCTION	1	1	0	2	0.25
ROAD/INTERSECTION DESIGN	0	2	0	2	0.25
OTHER	19	53	0	72	9.08
TOTAL	171	508	15	794	100.00

NOTE: "OTHER" includes factors with less than 2 occurrences.

1988 MOTORCYCLE ACCIDENTS
PRIMARY ACCIDENT OCCURRENCE BY ACCIDENT TYPE

PRIMARY ACCIDENT OCCURRENCE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
REAR END →→	124	207	2	333	14.29
RIGHT ANGLE COLLISION →↘	68	249	7	324	13.90
OFF ROAD - RIGHT ↘↘	20	207	10	237	10.17
LEFT TURN - ACROSS ONCOMING TRAFFIC ↘↘	36	133	6	175	7.51
OFF ROAD - LEFT ↘↘	18	105	6	129	5.53
OVERTAKING ↘↘	15	68	0	83	3.56
LEFT TURN - HEAD ON →↘	17	56	3	76	3.26
HEAD ON →↘	7	53	11	71	3.05
SIDE SWIPE ↘↘	22	47	1	70	3.00
BACKING UP ←	33	14	0	47	2.02
LEFT TURN - ONE WAY ↘↘	4	16	1	21	0.90
RIGHT TURN - REAR END →↘	1	8	0	9	0.39
RIGHT TURN - SAME DIRECTION ↘↘	3	6	0	9	0.39
RIGHT TURN - HEAD ON ↘↘	4	4	0	8	0.34
ONE WAY STREET ↘↘	3	3	0	6	0.26
RIGHT TURN - OPPOSITE DIRECTION ↘↘	1	2	0	3	0.13
OTHER	213	408	3	624	26.77
UNKNOWN	35	71	0	106	4.55
TOTAL	624	1,657	50	2,331	100.00

1988 MOTORCYCLE ACCIDENTS
PRE-COLLISION ACTION BY ACCIDENT TYPE

PRE-COLLISION ACTION	ACCIDENT TYPE			TOTAL ACTIONS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
GOING STRAIGHT AHEAD	481	1,538	49	2,068	50.50
MAKING LEFT TURN	140	467	17	624	15.24
PARKED LEGALLY	203	55	3	261	6.37
STOPPED IN TRAFFIC	72	100	0	172	4.20
MAKING RIGHT TURN	42	122	2	166	4.05
SLOWING OR STOPPING	28	81	1	110	2.69
SKIDDING	10	96	4	110	2.69
CHANGING LANES	25	70	0	95	2.32
OVERTAKING	13	78	1	92	2.25
BACKING	66	17	0	83	2.03
SWERVING	8	36	1	45	1.10
STARTING IN TRAFFIC	9	24	2	35	0.85
MAKING U TURN	7	14	0	21	0.51
STARTING FROM PARKED POSITION	11	9	0	20	0.49
AVOIDING OBJECT ON ROAD	2	17	0	19	0.46
PARKED ILLEGALLY	7	3	0	10	0.24
MERGING	3	7	0	10	0.24
ENTERING PARKED POSITION	5	1	0	6	0.15
YAW	0	4	2	6	0.15
SPINNING	0	1	0	1	0.02
OTHER	11	29	2	42	1.03
UNKNOWN	69	29	1	99	2.42
TOTAL	1,212	2,798	85	4,095	100.00

NOTE: This table represents the pre-collision actions of all vehicles involved in the accidents.

1988 MOTORCYCLE ACCIDENTS
ACCIDENT LOCATION BY ACCIDENT TYPE

ACCIDENT LOCATION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
AT INTERSECTION	230	705	20	955	40.97
BETWEEN INTERSECTIONS	238	654	23	915	39.25
ROAD/DRIVEWAY INTERSECTION	41	126	4	171	7.34
PARKING LOT	65	28	0	93	3.99
OFF HIGHWAY	10	32	1	43	1.84
BRIDGE	7	35	0	42	1.80
EXIT RAMP	4	8	0	12	0.51
INDUSTRIAL ROAD	0	8	1	9	0.39
RAILROAD CROSSING	1	7	0	8	0.34
EXIT INTERSECTION	1	6	0	7	0.30
ENTRANCE RAMP	1	3	0	4	0.17
ENTRANCE ACCELERATION LANE	2	1	0	3	0.13
ENTRANCE INTERSECTION	0	3	0	3	0.13
TUNNEL	0	1	1	2	0.09
EXIT DECELERATION LANE	1	1	0	2	0.09
OTHER	1	11	0	12	0.51
UNKNOWN	22	28	0	50	2.15
TOTAL	624	1,657	50	2,331	100.00

1988 MOTORCYCLE ACCIDENTS
ROADWAY SURFACE CONDITION BY ACCIDENT TYPE

SURFACE CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRY	504	1,417	45	1,966	84.34
WET	108	213	5	326	13.99
ICY	0	7	0	7	0.30
MUDDY	0	3	0	3	0.13
SNOW	1	1	0	2	0.09
OTHER	0	5	0	5	0.21
UNKNOWN	11	11	0	22	0.94
TOTAL	624	1,657	50	2,331	100.00

1988 MOTORCYCLE ACCIDENTS
LIGHTING CONDITION BY ACCIDENT TYPE

LIGHTING CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DAYLIGHT	425	1,140	26	1,591	68.25
DARK/SOME ILLUMINATION	68	181	9	258	11.07
DARK/FULL ILLUMINATION	65	120	3	188	8.07
DARK/NO ILLUMINATION	19	102	9	130	5.58
DUSK	32	83	3	118	5.06
DAWN	2	20	0	22	0.94
UNKNOWN	13	11	0	24	1.03
TOTAL	624	1,657	50	2,331	100.00

12.8

1988 MOTORCYCLE ACCIDENTS
WEATHER CONDITION BY ACCIDENT TYPE

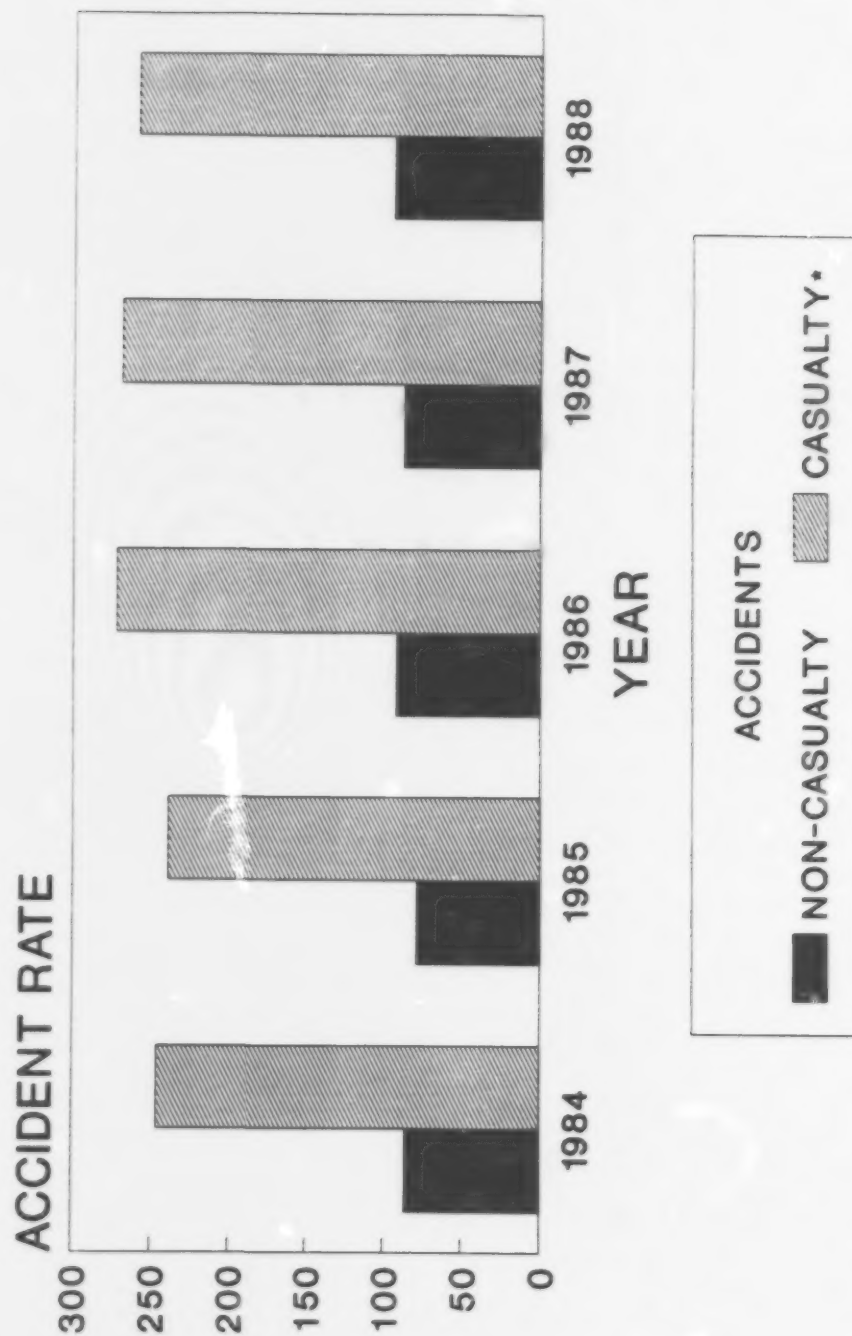
WEATHER CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
CLEAR	407	1,102	28	1,537	65.94
CLOUDY	125	408	19	552	23.68
RAIN	68	124	3	195	8.37
FOG	4	4	0	8	0.34
STRONG WIND	1	3	0	4	0.17
SNOW/SLEET	2	0	0	2	0.09
UNKNOWN	16	15	0	31	1.33
OTHER	1	1	0	2	0.09
TOTAL	624	1,657	50	2,331	100.00

12.9

1988 MOTORCYCLE ACCIDENTS
ACCIDENT HOUR BY ACCIDENT TYPE

ACCIDENT HOUR	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
Mid. - 1 am	20	32	2	54	2.32
1 am - 2 am	12	33	3	48	2.06
2 am - 3 am	10	40	3	53	2.27
3 am - 4 am	6	20	1	27	1.16
4 am - 5 am	2	17	0	19	0.82
5 am - 6 am	3	11	2	16	0.69
6 am - 7 am	8	23	0	31	1.33
7 am - 8 am	13	38	2	53	2.27
8 am - 9 am	20	58	0	78	3.35
9 am - 10 am	10	30	1	41	1.76
10 am - 11 am	21	59	2	82	3.52
11 am - Noon	21	64	4	89	3.82
Noon - 1 pm	41	90	1	132	5.66
1 pm - 2 pm	31	82	0	113	4.85
2 pm - 3 pm	40	114	2	156	6.69
3 pm - 4 pm	41	125	1	167	7.16
4 pm - 5 pm	62	148	4	214	9.18
5 pm - 6 pm	53	140	3	196	8.41
6 pm - 7 pm	39	95	3	137	5.88
7 pm - 8 pm	28	107	3	138	5.92
8 pm - 9 pm	22	91	3	116	4.98
9 pm - 10 pm	27	92	4	123	5.28
10 pm - 11 pm	22	78	2	102	4.38
11 pm - Mid.	28	49	3	80	3.43
UNKNOWN	44	21	1	66	2.83
TOTAL	624	1,657	50	2,331	100.00

MOTORCYCLES IN ACCIDENTS PER 10,000 LICENCED MOTORCYCLES



•Includes personal injury & fatal accidents.

fig. 32

1988 MOTORCYCLE ACCIDENTS
 DRIVER AGE BY ACCIDENT TYPE
 - ALL DRIVERS/VEHICLES INVOLVED -

DRIVER AGE	ACCIDENT TYPE			TOTAL DRIVERS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
1 - 5	0	0	0	0	0.00
6 - 10	1	4	1	6	0.15
11 - 15	5	27	1	33	0.81
16	16	61	1	78	1.90
17	27	106	3	136	3.32
18	37	117	4	158	3.86
19	38	161	3	202	4.93
20	50	167	9	226	5.52
21 - 25	166	644	13	823	20.10
26 - 30	135	376	19	530	12.94
31 - 35	97	295	6	398	9.72
36 - 40	78	211	12	301	7.35
41 - 45	50	153	4	207	5.05
46 - 50	42	93	2	137	3.35
51 - 55	27	60	2	89	2.17
56 - 60	23	66	1	90	2.20
61 - 65	21	52	0	73	1.78
66 - 70	9	30	0	39	0.95
71 - 75	6	22	0	28	0.68
76 - 80	3	20	0	23	0.56
81 - 85	2	6	0	8	0.20
86 - 90	0	2	0	2	0.05
OVER 95	0	1	0	1	0.02
UNKNOWN	379	124	4	507	12.38
TOTAL	1,212	2,798	85	4,095	100.00

1988 MOTORCYCLE ACCIDENTS
 DRIVER AGE BY ACCIDENT TYPE
 - MOTORCYCLE DRIVERS/VEHICLES ONLY -

DRIVER AGE	ACCIDENT TYPE			TOTAL DRIVERS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
1 - 5	0	0	0	0	0.00
6 - 10	1	2	1	4	0.18
11 - 15	3	22	1	26	1.18
16	10	37	1	48	2.18
17	13	79	3	95	4.32
18	23	85	3	111	5.04
19	29	121	3	153	6.95
20	31	127	6	164	7.45
21 - 25	108	484	8	600	27.26
26 - 30	70	252	16	338	15.36
31 - 35	55	179	1	235	10.68
36 - 40	31	111	6	148	6.72
41 - 45	17	63	2	82	3.73
46 - 50	10	33	0	43	1.95
51 - 55	4	14	0	18	0.82
56 - 60	2	17	0	19	0.86
61 - 65	5	18	0	23	1.04
66 - 70	0	6	0	6	0.27
71 - 75	0	1	0	1	0.05
76 - 80	0	3	0	3	0.14
81 - 85	0	0	0	0	0.00
86 - 90	0	0	0	0	0.00
OVER 95	0	0	0	0	0.00
UNKNOWN	63	21	0	84	3.82
TOTAL	475	1,675	51	2,201	100.00

1988 MOTORCYCLE ACCIDENTS
HELMET USAGE BY MOTORCYCLE DRIVERS AND PASSENGERS

SAFETY EQUIPMENT	DRIVERS NOT INJURED	PASSENGERS NOT INJURED	TOTAL NOT INJURED	PERCENT OF TOTAL
HELMET	174	33	207	32.70
NO HELMET	7	1	8	1.26
UNKNOWN	394	24	418	66.04
TOTAL	575	58	633	100.00

SAFETY EQUIPMENT	DRIVERS INJURED	PASSENGERS INJURED	TOTAL INJURED	PERCENT OF TOTAL
HELMET	928	140	1,068	58.68
NO HELMET	48	17	65	3.57
UNKNOWN	601	86	687	37.75
TOTAL	1,577	243	1,820	100.00

SAFETY EQUIPMENT	DRIVERS KILLED	PASSENGERS KILLED	TOTAL KILLED	PERCENT OF TOTAL
HELMET	37	1	38	80.85
NO HELMET	7	0	7	14.89
UNKNOWN	2	0	2	4.26
TOTAL	46	1	47	100.00

1988 MOTORCYCLE ACCIDENTS

MOTORCYCLE DRIVERS AND PASSENGERS INJURED AND KILLED
BY HELMET USAGE AND LOCATION OF INJURY

SAFETY EQUIPMENT	INJURY LOCATION	DRIVERS INJURED	PASSENGERS INJURED	TOTAL INJURED	DRIVERS KILLED	PASSENGERS KILLED	TOTAL KILLED
HELMET	Abdomen-Pelvis	19	4	23	2	0	2
	Back	61	17	78	0	0	0
	Chest	39	2	41	6	0	6
	Elbow-Lower Arm-Hand	137	9	146	0	0	0
	Entire Body	73	10	83	11	0	11
	Eye	5	1	6	0	0	0
	Face/Nose	25	7	32	0	0	0
	Head	53	5	58	15	1	16
	Hip-Upper Leg	78	14	92	0	0	0
	Knee-Lower Leg-Foot	318	48	366	1	0	1
	Neck	30	6	36	2	0	2
	Shoulder-Upper Arm	76	12	88	0	0	0
	Unknown	15	5	20	0	0	0
	SUBTOTAL	929	140	1,069	37	1	38
NO HELMET	Abdomen-Pelvis	1	2	3	0	0	0
	Back	1	0	1	0	0	0
	Chest	1	0	1	0	0	0
	Elbow-Lower Arm-Hand	3	2	5	0	0	0
	Entire Body	1	3	4	2	0	2
	Face/Nose	2	0	2	0	0	0
	Head	13	3	16	5	0	5
	Hip-Upper Leg	5	2	7	0	0	0
	Knee-Lower Leg-Foot	16	2	18	0	0	0
	Neck	1	1	2	0	0	0
	Shoulder-Upper Arm	3	2	5	0	0	0
	Unknown	1	0	1	0	0	0
	SUBTOTAL	48	17	65	7	0	7
UNKNOWN	Abdomen-Pelvis	17	3	20	0	0	0
	Back	37	12	49	0	0	0
	Chest	11	1	12	0	0	0
	Elbow-Lower Arm-Hand	98	11	109	0	0	0
	Entire Body	34	10	44	2	0	2
	Eye	1	0	1	0	0	0
	Face/Nose	18	4	22	0	0	0
	Head	36	4	40	0	0	0
	Hip-Upper Leg	60	12	72	0	0	0
	Knee-Lower Leg-Foot	192	20	212	0	0	0
	Neck	25	1	26	0	0	0
	Shoulder-Upper Arm	54	6	60	0	0	0
	Unknown	20	2	22	0	0	0
	SUBTOTAL	603	86	689	2	0	2
TOTAL		1,580	243	1,823	46	1	47

1988 MOTORCYCLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY MOTORCYCLE DRIVER'S AGE

CONTRIBUTING FACTORS	D R I V E R A G E														TOTAL FACTORS	PERCENT OF TOTAL
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40	41-50	51-60	61-70	OVER 70	UNKNOWN		
FAILING TO YIELD RIGHT OF WAY DRIVING WITHOUT DUE CARE	5	15	10	14	15	14	54	41	67	54	34	28	21	6	378	17.41
ALCOHOL INVOLVEMENT DRIVING AT UNSAFE SPEED	7	8	23	29	25	18	91	47	52	15	14	11	9	23	372	17.13
DRIVER INEXPERIENCE FOLLOWING TOO CLOSELY	2	2	4	8	9	13	43	47	48	15	3	1	0	7	202	9.31
AVOID VEH/PED/CYCLE IMPROPER PASSING OBSTRUCTION/DEBRIS ON ROAD	1	2	9	14	13	22	50	34	27	5	3	2	2	4	188	8.66
BACKING UNSAFELY IGNORING TRAFFIC CONTROL DEVICE	13	6	14	15	18	12	33	12	15	8	3	0	0	0	149	6.86
IMPROPER TURNING CUTTING IN WILD ANIMAL	0	2	3	7	3	4	33	11	16	2	4	4	1	3	93	4.28
WEATHER VISIBILITY IMPAIRED DOMESTIC ANIMAL	0	0	1	6	4	5	19	12	15	7	0	1	0	3	73	3.36
OTHER	0	1	6	5	3	5	18	11	12	3	1	2	0	2	69	3.18
	0	0	1	3	2	4	17	9	6	5	3	2	0	0	52	2.40
	0	0	0	0	0	0	7	8	10	11	4	0	0	2	42	1.93
	1	4	3	2	2	0	12	3	4	1	2	2	2	3	41	1.89
	0	2	0	0	5	4	4	4	9	4	4	3	2	0	41	1.89
	0	2	0	0	2	1	7	1	6	6	3	2	2	4	36	1.66
	0	0	3	0	4	0	4	4	8	6	4	0	0	0	33	1.52
	0	0	1	1	1	4	8	6	6	4	0	0	0	0	31	1.43
	0	1	1	0	1	1	6	3	4	8	1	1	0	0	27	1.24
	0	1	0	2	2	2	5	4	6	2	1	1	0	0	26	1.20
	8	8	8	12	17	17	72	39	68	29	13	7	7	13	318	14.65
TOTAL	37	54	87	118	126	126	483	296	379	185	97	67	46	70	2,171	100.00

NOTE: "OTHER" includes those factors with less than 25 occurrences, as well as those unspecified factors not recorded in reports 3.1 to 3.5

1988 MOTORCYCLE ACCIDENTS

MAJOR CONTRIBUTING FACTORS IN PROPERTY DAMAGE ACCIDENTS BY MOTORCYCLE DRIVER'S AGE

CONTRIBUTING FACTORS	D R I V E R A G E														TOTAL FACTORS	PERCENT OF TOTAL
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40	41-50	51-60	61-70	OVER 70	UNKNOWN		
DRIVING WITHOUT DUE CARE	0	1	4	7	4	3	19	8	8	0	2	2	1	9	68	18.68
FAILING TO YIELD RIGHT OF WAY	2	0	2	4	3	1	3	7	8	11	7	5	2	1	56	15.38
BACKING UNSAFELY	0	0	0	0	0	0	4	7	8	7	4	0	0	2	32	8.79
ALCOHOL INVOLVEMENT	0	0	2	0	1	2	5	5	4	3	2	0	0	5	29	7.97
AVOIDING VEH/PED CYCLE	0	0	0	3	0	1	4	3	5	2	0	0	0	1	19	5.22
DRIVING AT UNSAFE SPEED	0	0	0	1	2	1	5	6	0	0	0	1	0	2	18	4.95
DRIVER INEXPERIENCE	2	0	2	2	3	1	2	1	1	0	0	0	0	0	14	3.85
FOLLOWING TOO CLOSELY	0	0	0	1	1	0	5	2	2	1	2	0	0	0	14	3.85
CUTTING IN	0	0	0	0	1	0	1	0	2	3	1	1	0	1	10	2.75
IMPROPER PASSING	0	0	0	0	0	0	2	2	1	2	0	0	0	1	8	2.20
WEATHER	0	0	0	0	0	0	2	3	3	0	0	0	0	0	8	2.20
IGNORING TRAFFIC CONTROL DEVICE	0	1	0	0	0	0	1	0	1	0	0	2	1	1	7	1.92
OBSTRUCTION/DEBRIS ON ROAD	0	0	0	0	0	1	3	2	0	0	0	0	0	0	6	1.65
ROAD MAINTENANCE/ CONSTRUCTION	0	0	0	0	0	0	2	0	2	1	0	0	0	0	5	1.37
PAVEMENT CONDITION	0	1	0	0	0	0	2	0	0	1	0	0	0	0	4	1.10
WILD ANIMAL	0	0	0	0	1	0	2	0	1	0	0	0	0	0	4	1.10
OTHER	1	2	2	3	1	2	12	6	13	7	3	1	2	7	62	17.02
TOTAL	5	5	12	21	17	12	74	52	59	38	21	12	6	30	364	100.00

NOTE: "OTHER" includes factors with less than 4 occurrences.

1988 MOTORCYCLE ACCIDENTS

MAJOR CONTRIBUTING FACTORS IN PERSONAL INJURY ACCIDENTS BY MOTORCYCLE DRIVER'S AGE

CONTRIBUTING FACTORS	D R I V E R A G E													TOTAL FACTORS	PERCENT OF TOTAL
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40	41-50	51-60	61-70	OVER 70		
													UNKNOWN		
FAILING TO YIELD RIGHT OF WAY DRIVING WITHOUT DUE CARE	3	15	8	10	12	12	50	32	57	43	25	23	19	5	314
ALCOHOL INVOLVEMENT	6	7	18	20	21	13	71	38	43	14	12	9	8	14	294
UNSAFE SPEED	2	2	2	7	6	11	37	36	41	11	1	1	0	2	159
DRIVER INEXPERIENCE	1	2	9	12	11	17	42	24	24	5	3	1	2	2	155
FOLLOWING TOO CLOSELY	10	6	12	13	15	11	31	11	14	8	3	0	0	0	134
IMPROPER PASSING AVOIDING VEH/PED/ CYCLE	0	2	3	6	2	4	28	9	14	1	2	4	1	3	79
OBSTRUCTION/DEBRIS ON ROAD	0	1	6	5	3	5	15	9	11	1	1	2	0	1	60
IMPROPER TURNING IGNORING TRAFFIC CONTROL DEVICE	0	0	1	3	4	4	15	9	10	5	0	1	0	2	54
WILD ANIMAL CUTTING IN	0	0	1	3	2	3	14	7	6	5	3	2	0	0	46
DOMESTIC ANIMAL VISIBILITY IMPAIRED	0	2	0	0	5	4	4	3	8	4	4	3	1	0	38
WEATHER OTHER	1	3	3	2	2	0	11	2	3	1	2	0	1	2	33
	0	0	3	0	3	0	2	4	7	6	4	0	0	0	29
	0	2	0	0	1	1	6	1	4	3	2	1	2	3	26
	0	1	0	2	2	2	3	3	5	2	1	1	0	0	22
	0	1	1	0	1	1	6	2	3	5	1	1	0	0	22
	0	0	1	1	1	4	6	2	3	4	0	0	0	0	22
	7	5	5	9	16	15	61	35	56	27	10	6	6	6	264
TOTAL	30	49	73	93	107	107	402	227	309	145	74	55	40	40	1,751
															100.00

NOTE: "OTHER" includes factors with less than 20 occurrences.

1988 MOTORCYCLE ACCIDENTS

MAJOR CONTRIBUTING FACTORS IN FATAL ACCIDENTS BY MOTORCYCLE DRIVER'S AGE

CONTRIBUTING FACTORS	D R I V E R A G E														TOTAL FACTORS	PERCENT OF TOTAL	
	UNDER 16	16	17	18	19	20	21-25	26-30	30-40	41-50	51-60	61-70	OVER 70	UNKNOWN			
DRIVING AT UNSAFE SPEED	0	0	0	1	0	4	3	4	3	0	0	0	0	0	0	15	26.79
ALCOHOL INVOLVEMENT	0	0	0	1	2	0	1	6	3	1	0	0	0	0	0	14	25.00
DRIVING WITHOUT DUE CARE	1	0	1	2	0	2	1	1	1	1	0	0	0	0	0	10	17.86
FAILING TO YIELD RIGHT OF WAY	0	0	0	0	0	1	1	2	2	0	2	0	0	0	0	8	14.29
DEFECTIVE HEADLIGHTS	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	3.57
VISIBILITY IMPAIRED	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	3.57
DOMESTIC ANIMAL	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1.79
DRIVER INEXPERIENCE	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1.79
IGNORING TRAFFIC CONTROL DEVICE	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1.79
IMPROPER PASSING	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1.79
WEATHER CONDITION	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1.79
TOTAL	2	0	2	4	2	7	7	17	11	2	2	0	0	0	0	56	100.00

1988 ALCOHOL RELATED MOTORCYCLE ACCIDENTS
VICTIMS INJURED AND KILLED BY VICTIM AGE

- VICTIMS NOT IN DRINKING DRIVER'S VEHICLE ONLY -

VICTIM AGE	DRIVER		PASSENGER		BICYCLIST		PEDESTRIAN		MOTORCYCLE DRIVER		MOTORCYCLE PASSENGER		UNKNOWN/ OTHER		TOTAL VICTIMS	
	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 - 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 - 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 - 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 - 35	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 - 40	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 - 45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 - 50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 - 55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56 - 60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 - 65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66 - 70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 - 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OVER 95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
TOTAL	3	0	2	0	0	0	0	0	24	4	3	0	0	0	32	4

NOTE: PASSENGER includes those persons "hanging on" to a vehicle.
BICYCLIST includes both drivers and passengers on a bicycle.

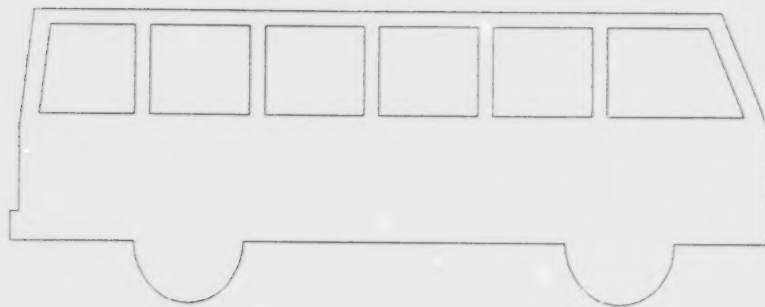
1988 ALCOHOL RELATED MOTORCYCLE ACCIDENTS
VICTIMS INJURED AND KILLED BY VICTIM AGE

- VICTIMS IN DRINKING DRIVER'S VEHICLE ONLY -

VICTIM AGE	DRIVER		PASSENGER		BICYCLIST		PEDESTRIAN		MOTORCYCLE DRIVER		MOTORCYCLE PASSENGER		UNKNOWN/ OTHER		TOTAL VICTIMS	
	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD	INJ	KLD
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 - 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0
17	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4	0
18	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5	0
19	1	0	1	0	0	0	0	0	12	1	0	0	0	0	14	0
20	0	0	0	0	0	0	0	0	7	1	0	0	0	0	9	0
21 - 25	0	0	0	0	0	0	0	0	12	4	0	0	0	0	12	2
26 - 30	0	0	0	0	0	0	0	0	42	0	0	0	0	0	44	1
31 - 35	0	0	0	0	0	0	0	0	32	0	0	0	0	0	36	1
36 - 40	0	0	0	0	0	0	0	0	25	0	0	0	0	0	26	4
41 - 45	0	0	0	0	0	0	0	0	12	0	0	1	0	0	12	1
46 - 50	1	0	0	0	0	0	0	0	6	0	0	0	0	0	7	0
51 - 55	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0
56 - 60	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
61 - 65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
66 - 70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71 - 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 - 80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81 - 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OVER 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	8	0	0	0	3	0	163	8	0	2	0	0	176	10

NOTE: PASSENGER includes those persons "hanging on" to a vehicle.
BICYCLIST includes both drivers and passengers on a bicycle.

SECTION 13



SCHOOL BUS ACCIDENTS

1988 SCHOOL BUS ACCIDENTS

A school bus is defined, for the purpose of these reports, as a motor vehicle used to convey children to or from school. Generally, these are the traditional yellow and black school buses.

A total of 175 accidents occurring in 1988 involved school buses. Forty-three accidents resulted in injuries to 61 people, 25 of whom were school bus occupants. Three people were killed in 3 fatal accidents occurring in Oliver, Richmond, and Terrace. All of the fatal victims were bicyclists.

The major contributing factors to school bus accidents, assigned to school bus drivers, were backing unsafely; driving without due care; and weather condition.

1988 SCHOOL BUS ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
- ALL DRIVERS/VEHICLES INVOLVED -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	22	8	0	30	17.86
BACKING UNSAFELY	19	0	0	19	11.31
WEATHER CONDITION	16	3	0	19	11.31
FAILING TO YIELD RIGHT OF WAY	8	7	0	15	8.93
FOLLOWING TOO CLOSELY	3	7	0	10	5.95
IMPROPER TURNING	5	3	0	8	4.76
DRIVER INEXPERIENCE	4	2	0	6	3.57
DRIVING AT UNSAFE SPEED	3	3	0	6	3.57
IMPROPER PASSING	4	1	0	5	2.98
PEDESTRIAN ERROR/CONFUSION	1	2	1	4	1.38
IGNORING TRAFFIC CONTROL DEVICE	1	2	0	3	1.79
AVOID VEH/PED/CYCLE	2	1	0	3	1.79
ROAD MAINTENANCE/CONSTRUCTION	3	0	0	3	1.79
CUTTING IN	2	0	0	2	1.19
DEFECTIVE BRAKES	1	1	0	2	1.19
PAVEMENT CONDITION	1	1	0	2	1.19
WILD ANIMAL	2	0	0	2	1.19
ALCOHOL INVOLVEMENT	0	1	0	1	0.60
EXTREME FATIGUE	1	0	0	1	0.60
FELL ASLEEP	0	1	0	1	0.60
ILLNESS	1	0	0	1	0.60
DRIVING ON WRONG SIDE OF ROAD	0	0	1	1	0.60
OVERSIZE VEHICLE	1	0	0	1	0.60
DRIVERLESS VEHICLE	1	0	0	1	0.60
VISIBILITY IMPAIRED	1	0	0	1	0.60
DOMESTIC ANIMAL	1	0	0	1	0.60
ROADSIDE HAZARD	1	0	0	1	0.60
OTHER	16	2	1	19	11.31
TOTAL	120	45	3	168	100.00

1988 SCHOOL BUS ACCIDENTS
 MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
 - SCHOOL BUS DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
BACKING UNSAFELY	15	0	0	15	18.75
DRIVING WITHOUT DUE CARE	7	3	0	10	12.50
WEATHER CONDITION	6	3	0	9	11.25
FAILING TO YIELD RIGHT OF WAY	4	4	0	8	10.00
IMPROPER TURNING	3	1	0	4	5.00
AVOID VEH/PED/CYCLE	2	1	0	3	3.75
FOLLOWING TOO CLOSELY	0	3	0	3	3.75
IMPROPER PASSING	2	1	0	3	3.75
PAVEMENT CONDITION	1	1	0	2	2.50
ROAD MAINTENANCE/ CONSTRUCTION	2	0	0	2	2.50
WILD ANIMAL	2	0	0	2	2.50
DEFECTIVE BRAKES	0	1	0	1	1.25
DOMESTIC ANIMAL	1	0	0	1	1.25
DRIVER INEXPERIENCE	1	0	0	1	1.25
DRIVING ON WRONG SIDE OF ROAD	0	0	1	1	1.25
FELL ASLEEP	0	1	0	1	1.25
IGNORING TRAFFIC CONTROL DEVICE	0	1	0	1	1.25
DRIVERLESS VEHICLE	1	0	0	1	1.25
OVERSIZE VEHICLE	1	0	0	1	1.25
DRIVING AT UNSAFE SPEED	0	1	0	1	1.25
VISIBILITY IMPAIRED	1	0	0	1	1.25
OTHER	9	0	0	9	11.25
TOTAL	58	21	1	80	100.00

1988 SCHOOL BUS ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
- OTHER DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	15	5	0	20	22.73
WEATHER CONDITION	10	0	0	10	11.36
FAILING TO YIELD RIGHT OF WAY	4	3	0	7	7.95
FOLLOWING TOO CLOSELY	3	4	0	7	7.95
DRIVER INEXPERIENCE	3	2	0	5	5.68
DRIVING AT UNSAFE SPEED	3	2	0	5	5.68
BACKING UNSAFELY	4	0	0	4	4.55
IMPROPER TURNING	2	2	0	4	4.55
PEDESTRIAN ERROR/CONFUSION	1	2	1	4	4.55
CUTTING IN	2	0	0	2	2.27
IGNORING TRAFFIC CONTROL DEVICE	1	1	0	2	2.27
IMPROPER PASSING	2	0	0	2	2.27
ALCOHOL INVOLVEMENT	0	1	0	1	1.14
DEFECTIVE BRAKES	1	0	0	1	1.14
FATIGUE	1	0	0	1	1.14
ILLNESS	1	0	0	1	1.14
ROAD MAINTENANCE/CONSTRUCTION	1	0	0	1	1.14
ROADSIDE HAZARD	1	0	0	1	1.14
OTHER	7	1	1	10	11.36
TOTAL	62	24	2	88	100.00

MAJOR CONTRIBUTING FACTORS IN SCHOOL BUS ACCIDENTS

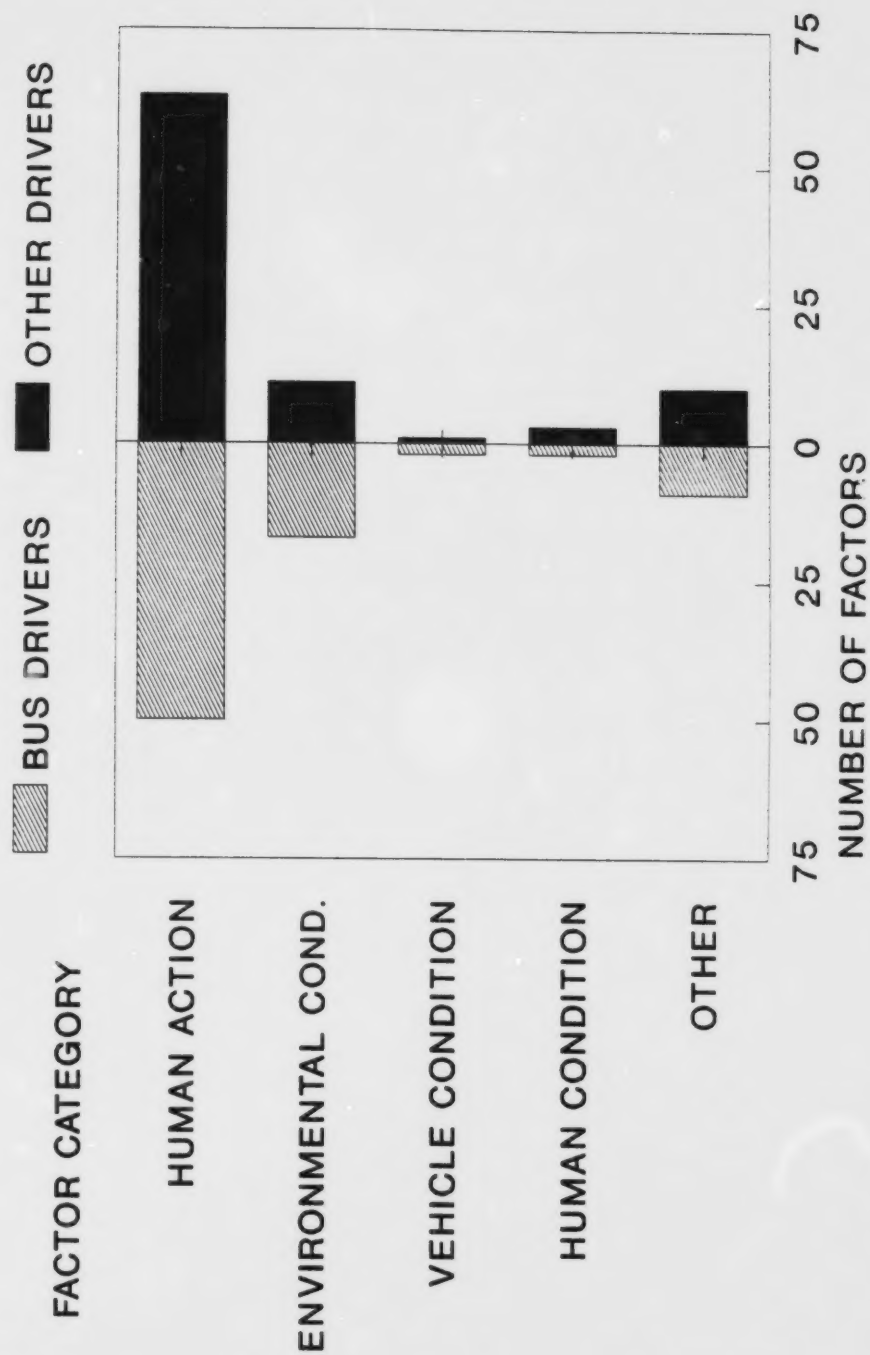


fig. 33

1988 SCHOOL BUS ACCIDENTS

PRIMARY ACCIDENT OCCURRENCE BY ACCIDENT TYPE

PRIMARY ACCIDENT OCCURRENCE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
REAR END →→	24	14	1	39	22.29
SIDE SWIPE ←→	18	3	0	21	12.00
BACKING UP ←	19	1	0	20	11.43
RIGHT ANGLE COLLISION →↘	14	4	1	19	10.86
HEAD ON →↔	5	2	0	7	4.00
OVERTAKING ↻	7	0	0	7	4.00
LEFT TURN - ACROSS ONCOMING TRAFFIC ↘↙	4	2	0	6	3.43
LEFT TURN - HEAD ON →↘	2	2	0	4	2.29
OFF ROAD - RIGHT ↘↘	0	3	0	3	1.71
LEFT TURN - ONE WAY ↘	2	0	0	2	1.14
OFF ROAD - LEFT ↘-	1	1	0	2	1.14
ONE WAY STREET ↕↕	1	0	0	1	0.57
RIGHT TURN - OPPOSITE DIRECTION ↘↙	1	0	0	1	0.57
RIGHT TURN - REAR END →↘	0	1	0	1	0.57
OTHER	30	5	1	36	20.57
UNKNOWN	4	2	0	6	3.43
TOTAL	132	40	3	175	100.00

1988 SCHOOL BUS ACCIDENTS
PRE-COLLISION ACTION BY ACCIDENT TYPE

PRE-COLLISION ACTION	ACCIDENT TYPE			TOTAL ACTIONS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
GOING STRAIGHT AHEAD	84	38	2	124	35.13
PARKED LEGALLY	34	2	0	36	10.20
MAKING LEFT TURN	23	10	0	33	9.35
BACKING	29	1	0	30	8.50
STOPPED IN TRAFFIC	22	8	0	30	8.50
MAKING RIGHT TURN	18	4	0	22	6.23
SLOWING OR STOPPING	13	5	0	18	5.10
SKIDDING	11	2	0	13	3.68
CHANGING LANES	4	1	0	5	1.42
AVOIDING OBJECT ON ROAD	3	0	0	3	0.85
OVERTAKING	2	1	0	3	0.85
PARKED ILLEGALLY	3	0	0	3	0.85
STARTING FROM PARKED POSITION	1	1	1	3	0.85
STARTING IN TRAFFIC	2	1	0	3	0.85
ENTERING PARKED POSITION	2	0	0	2	0.57
MAKING U-TURN	2	0	0	2	0.57
SWERVING	2	0	0	2	0.57
MERGING	0	1	0	1	0.28
NOT APPLICABLE	0	5	0	5	1.42
OTHER	5	0	3	8	2.27
UNKNOWN	7	0	0	7	1.98
TOTAL	267	80	6	353	100.00

NOTE: This table represents the pre-collision actions of all vehicles involved.

1988 SCHOOL BUS ACCIDENTS
ACCIDENT LOCATION BY ACCIDENT TYPE

ACCIDENT LOCATION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
AT INTERSECTION	42	17	0	59	33.71
BETWEEN INTERSECTIONS	41	11	2	54	30.86
PARKING LOT	25	1	0	26	14.86
ROAD/DRIVEWAY INTERSECTION	11	6	1	18	10.29
BRIDGE	1	2	0	3	1.71
FERRY OR DOCK	1	1	0	2	1.14
OFF HIGHWAY	2	0	0	2	1.14
ENTRANCE INTERSECTION	1	0	0	1	0.57
EXIT RAMP	0	1	0	1	0.57
OTHER	1	0	0	1	0.57
UNKNOWN	7	1	0	8	4.57
TOTAL	132	40	3	175	100.00

1988 SCHOOL BUS ACCIDENTS
ROADWAY SURFACE CONDITION BY ACCIDENT TYPE

SURFACE CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRY	53	21	3	77	44.00
WET	45	14	0	59	33.71
SNOW	13	3	0	16	9.14
ICY	14	1	0	15	8.57
SLUSH	1	1	0	2	1.14
UNKNOWN	6	0	0	6	3.43
TOTAL	132	40	3	175	100.00

1988 SCHOOL BUS ACCIDENTS
LIGHTING CONDITION BY ACCIDENT TYPE

LIGHTING CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DAYLIGHT	102	36	3	141	80.57
DARK/SOME ILLUMINATION	8	0	0	8	4.57
DARK/FULL ILLUMINATION	5	1	0	6	3.43
DARK/NO ILLUMINATION	4	1	0	5	2.86
DAWN	4	1	0	5	2.86
DUSK	3	1	0	4	2.29
UNKNOWN	6	0	0	6	3.43
TOTAL	132	40	3	175	100.00

13.8

1988 SCHOOL BUS ACCIDENTS
WEATHER CONDITION BY ACCIDENT TYPE

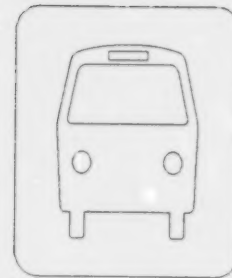
WEATHER CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
CLEAR	48	16	3	67	38.29
RAIN	36	9	0	45	25.71
CLOUDY	28	13	0	41	23.43
SNOW/SLEET	14	1	0	15	8.57
FOG	2	1	0	3	1.71
UNKNOWN	4	0	0	4	2.29
TOTAL	132	40	3	175	100.00

13.9

1988 SCHOOL BUS ACCIDENTS
ACCIDENT HOUR BY ACCIDENT TYPE

ACCIDENT HOUR	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
Mid. - 1 am	0	0	0	0	0.00
1 am - 2 am	1	0	0	1	0.57
2 am - 3 am	0	0	0	0	0.00
3 am - 4 am	0	1	0	1	0.57
4 am - 5 am	0	0	0	0	0.00
5 am - 6 am	2	0	0	2	1.14
6 am - 7 am	1	0	0	1	0.57
7 am - 8 am	7	4	0	11	6.29
8 am - 9 am	19	7	1	27	15.43
9 am - 10 am	9	2	0	11	6.29
10 am - 11 am	6	2	0	8	4.57
11 am - Noon	6	2	0	8	4.57
Noon - 1 pm	7	1	0	8	4.57
1 pm - 2 pm	6	1	0	7	4.00
2 pm - 3 pm	10	4	0	14	8.00
3 pm - 4 pm	23	10	1	34	19.43
4 pm - 5 pm	11	0	0	11	6.29
5 pm - 6 pm	6	1	1	8	4.57
6 pm - 7 pm	3	1	0	4	2.29
7 pm - 8 pm	3	1	0	4	2.29
8 pm - 9 pm	1	1	0	2	1.14
9 pm - 10 pm	3	0	0	3	1.71
10 pm - 11 pm	3	1	0	4	2.29
11 pm - Mid.	1	0	0	1	0.57
UNKNOWN	4	1	0	5	2.86
TOTAL	132	40	3	175	100.00

SECTION 14



PUBLIC BUS ACCIDENTS

1988 PUBLIC BUS ACCIDENTS

For the purpose of this report, a public bus is defined as a motor vehicle designed to carry more than ten persons. This category excludes school buses (yellow and black) but does include buses chartered for school activities.

A total of 624 accidents involving public buses occurred in 1988. There were 266 persons injured and 7 people killed in 163 casualty-producing accidents. Of the 266 persons injured, 119 were bus occupants.

The major contributing factors to public bus accidents, assigned to public bus drivers, were driving without due care; failing to yield the right of way and following too closely.

1988 PUBLIC BUS ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
- ALL DRIVERS/VEHICLES INVOLVED -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
FAILING TO YIELD RIGHT OF WAY	39	19	0	58	14.39
DRIVING WITHOUT DUE CARE	34	21	0	55	13.65
ALCOHOL INVOLVEMENT	13	18	0	31	7.69
FOLLOWING TOO CLOSELY	14	14	0	28	6.95
IMPROPER TURNING	16	3	0	19	4.71
IGNORING TRAFFIC CONTROL DEVICE	9	9	0	18	4.47
WEATHER CONDITION	8	9	0	17	4.22
CUTTING IN	10	5	0	15	3.72
DRIVING AT UNSAFE SPEED	8	5	1	14	3.47
BACKING UNSAFELY	12	1	0	13	3.23
AVOIDING VEH/PED/CYCLE	5	7	0	12	2.98
IMPROPER PASSING	8	2	0	10	2.48
DRIVER INEXPERIENCE	5	2	0	7	1.74
DRIVING ON WRONG SIDE OF ROAD	5	2	0	7	1.74
PEDESTRIAN ERROR/CONFUSION	0	6	1	7	1.74
DEFECTIVE BRAKES	3	3	0	6	1.49
ROAD MAINTENANCE/ CONSTRUCTION	4	2	0	6	1.49
DRIVERLESS VEHICLE	4	1	0	5	1.24
SUNLIGHT GLARE	3	2	0	5	1.24
VISIBILITY IMPAIRED	2	3	0	5	1.24
ROADSIDE HAZARD	3	1	0	4	0.99
FELL ASLEEP	1	0	1	2	0.50
OBSTRUCTION/DEBRIS ON ROAD	2	0	0	2	0.50
OVERSIZE VEHICLE	2	0	0	2	0.50
ROAD/INTERSECTION DESIGN	2	0	0	2	0.50
WILD ANIMAL	2	0	0	2	0.50
(RESULT OF) DIRECTLY PRECEDING ACCIDENT	1	0	0	1	0.25
DEFECTIVE HEADLIGHTS	0	1	0	1	0.25
DEFECTIVE TURN SIGNALS	1	0	0	1	0.25
ILLNESS	0	1	0	1	0.25
INSECURE LOAD	0	1	0	1	0.25
OTHER	31	15	0	46	11.41
TOTAL	247	153	3	403	100.00

1988 PUBLIC BUS ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
- PUBLIC BUS DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	9	5	0	14	10.29
FAILING TO YIELD RIGHT OF WAY	10	4	0	14	10.29
FOLLOWING TOO CLOSELY	2	9	0	11	8.09
IMPROPER TURNING	10	1	0	11	8.09
BACKING UNSAFELY	9	1	0	10	7.35
CUTTING IN	6	1	0	7	5.15
WEATHER CONDITION	3	4	0	7	5.15
AVOIDING VEH/PED/CYCLE	2	4	0	6	4.41
VISIBILITY IMPAIRED	2	2	0	4	2.94
DRIVING ON WRONG SIDE OF ROAD	3	0	0	3	2.21
IMPROPER PASSING	3	0	0	3	2.21
DRIVERLESS VEHICLE	2	1	0	3	2.21
ROAD MAINTENANCE/CONSTRUCTION	2	1	0	3	2.21
ROADSIDE HAZARD	3	0	0	3	2.21
DEFECTIVE BRAKES	1	1	0	2	1.47
IGNORING TRAFFIC CONTROL DEVICE	0	2	0	2	1.47
DRIVING AT UNSAFE SPEED	1	1	0	2	1.47
WILD ANIMAL	2	0	0	2	1.47
(RESULT OF) DIRECTLY PRECEDING ACCIDENT	1	0	0	1	0.74
DRIVER INEXPERIENCE	1	0	0	1	0.74
FELL ASLEEP	1	0	0	1	0.74
OBSTRUCTION/DEBRIS ON ROAD	1	0	0	1	0.74
OVERSIZE VEHICLE	1	0	0	1	0.74
ROAD/INTERSECTION DESIGN	1	0	0	1	0.74
SUNLIGHT GLARE	0	1	0	1	0.74
OTHER	16	6	0	22	16.18
TOTAL	92	44	0	136	100.00

1988 PUBLIC BUS ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
- OTHER DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
FAILING TO YIELD RIGHT OF WAY	29	15	0	44	16.48
DRIVING WITHOUT DUE CARE	25	16	0	41	15.36
ALCOHOL INVOLVEMENT	13	18	0	31	11.61
FOLLOWING TOO CLOSELY	12	5	0	17	6.37
IGNORING TRAFFIC CONTROL DEVICE	9	7	0	16	5.99
DRIVING AT UNSAFE SPEED	7	4	1	12	4.49
WEATHER CONDITION	5	5	0	10	3.75
CUTTING IN	4	4	0	8	3.00
IMPROPER TURNING	6	2	0	8	3.00
IMPROPER PASSING	5	2	0	7	2.62
PEDESTRIAN ERROR/CONFUSION	0	6	1	7	2.62
AVOIDING VEH/PED/CYCLE	3	3	0	6	2.25
DRIVER INEXPERIENCE	4	2	0	6	2.25
DEFECTIVE BRAKES	2	2	0	4	1.50
DRIVING ON WRONG SIDE OF ROAD	2	2	0	4	1.50
SUNLIGHT GLARE	3	1	0	4	1.50
BACKING UNSAFELY	3	0	0	3	1.12
ROAD MAINTENANCE/CONSTRUCTION	2	1	0	3	1.12
DRIVERLESS VEHICLE	2	0	0	2	0.75
DEFECTIVE HEADLIGHTS	0	1	0	1	0.37
DEFECTIVE TURN SIGNALS	1	0	0	1	0.37
FELL ASLEEP	0	0	1	1	0.37
ILLNESS	0	1	0	1	0.37
INSECURE LOAD	0	1	0	1	0.37
OBSTRUCTION/DEBRIS ON ROAD	1	0	0	1	0.37
OVERSIZE VEHICLE	1	0	0	1	0.37
ROAD/INTERSECTION DESIGN	1	0	0	1	0.37
ROADSIDE HAZARD	0	1	0	1	0.37
VISIBILITY IMPAIRED	0	1	0	1	0.37
OTHER	15	9	0	24	8.99
TOTAL	155	109	3	267	100.00

MAJOR CONTRIBUTING FACTORS IN PUBLIC BUS ACCIDENTS

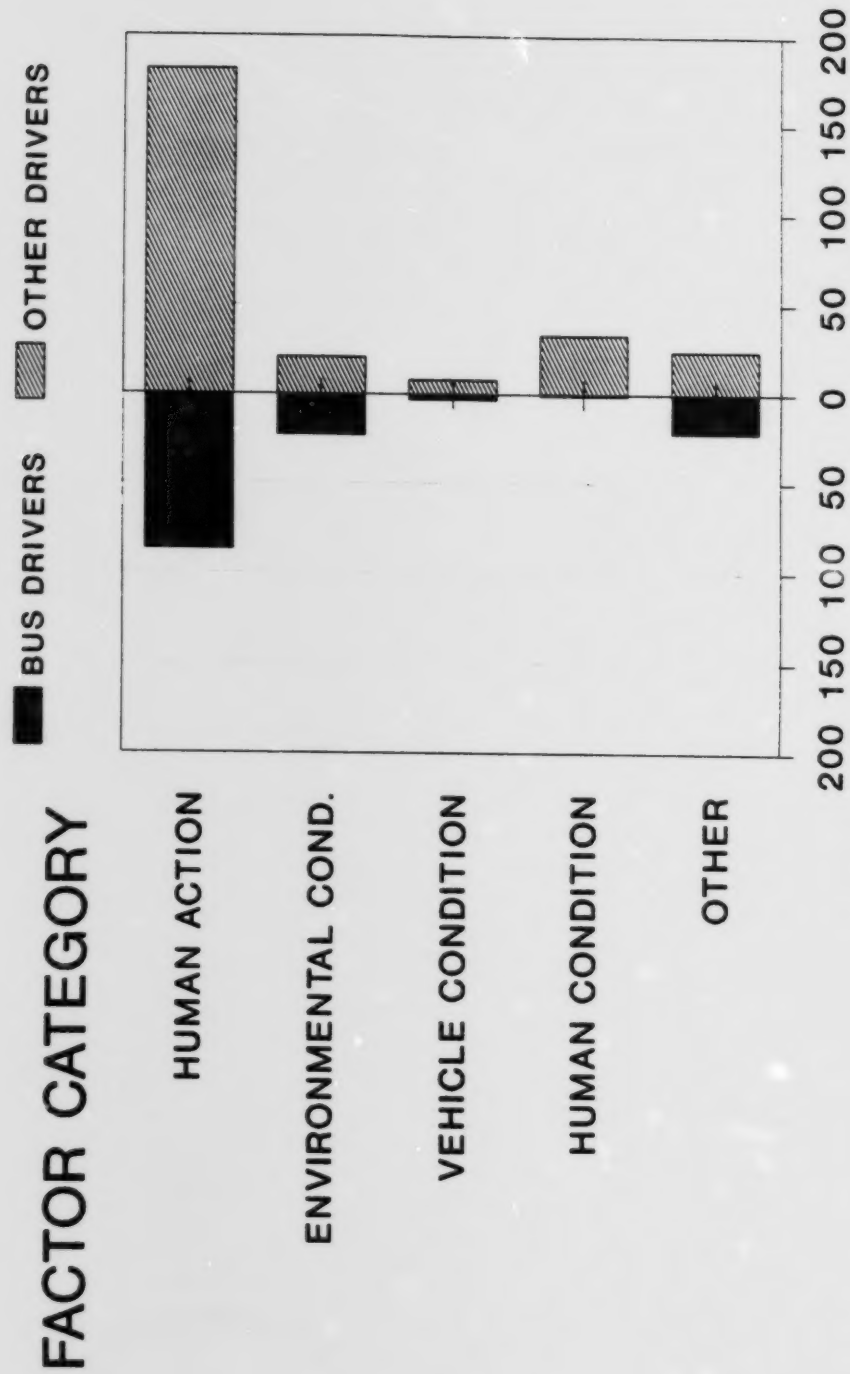


fig. 34

1988 PUBLIC BUS ACCIDENTS
PRIMARY ACCIDENT OCCURRENCE BY ACCIDENT TYPE

PRIMARY ACCIDENT OCCURRENCE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
REAR END →→	66	36	0	102	16.35
RIGHT ANGLE COLLISION →↘	37	27	0	64	10.26
OVERTAKING ↗↘	45	10	1	56	8.97
SIDE SWIPE ↔	30	7	0	37	5.93
LEFT TURN - ACROSS ONCOMING TRAFFIC ↘↗	10	8	1	19	3.04
HEAD ON →↔	5	7	2	14	2.24
BACKING UP ←	12	1	0	13	2.08
RIGHT TURN - REAR END →↘	10	1	0	11	1.76
LEFT TURN - HEAD ON →↘	7	2	0	9	1.44
OFF ROAD - RIGHT ↗↘	3	5	0	8	1.28
LEFT TURN - ONE WAY ↗↘	5	2	0	7	1.12
OFF ROAD - LEFT ↗↘	3	3	0	6	0.96
RIGHT TURN - SAME DIRECTION →→	3	0	0	3	0.48
ONE WAY STREET ↗↘	2	0	0	2	0.32
RIGHT TURN - HEAD ON ↗↘	2	0	0	2	0.32
RIGHT TURN - OPPOSITE DIRECTION ↗↘	0	1	0	1	0.16
OTHER	204	38	2	244	39.10
UNKNOWN	17	9	0	26	4.17
TOTAL	461	157	6	624	100.00

1988 PUBLIC BUS ACCIDENTS
PRE-COLLISION ACTION BY ACCIDENT TYPE

PRE-COLLISION ACTION	ACCIDENT TYPE			TOTAL ACTIONS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
GOING STRAIGHT AHEAD	384	169	8	561	42.86
MAKING RIGHT TURN	117	17	1	135	10.31
STOPPED IN TRAFFIC	85	33	0	118	9.01
MAKING LEFT TURN	62	21	1	84	6.42
PARKED LEGALLY	72	11	0	83	6.34
CHANGING LANES	64	11	0	75	5.73
SLOWING OR STOPPING	33	16	0	49	3.74
BACKING	27	1	0	28	2.14
STARTING FROM PARKED POSITION	19	8	0	27	2.06
SKIDDING	14	6	0	20	1.53
OVERTAKING	12	3	0	15	1.15
ENTERING PARKED POSITION	10	2	0	12	0.92
STARTING IN TRAFFIC	6	6	0	12	0.92
PARKED ILLEGALLY	6	4	0	10	0.76
MERGING	8	0	0	8	0.61
SWERVING	6	2	0	8	0.61
AVOIDING OBJECT ON ROAD	2	1	0	3	0.23
JACK-KNIFING	0	1	0	1	0.08
SPINNING	1	0	0	1	0.08
NOT APPLICABLE	1	27	2	30	2.92
OTHER	8	4	0	12	0.92
UNKNOWN	13	4	0	17	1.30
TOTAL	950	347	12	1,309	100.00

NOTE: This table represents the pre-collision actions of all vehicles involved

1988 PUBLIC BUS ACCIDENTS
ACCIDENT LOCATION BY ACCIDENT TYPE

ACCIDENT LOCATION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
BETWEEN INTERSECTIONS	196	78	4	278	44.55
AT INTERSECTION	208	64	2	274	43.91
PARKING LOT	24	3	0	27	4.33
ROAD/DRIVEWAY INTERSECTION	11	4	0	15	2.40
BRIDGE	6	6	0	12	1.92
ENTRANCE RAMP	2	0	0	2	0.32
ENTRANCE INTERSECTION	1	0	0	1	0.16
TUNNEL	1	0	0	1	0.16
OTHER	1	0	0	1	0.16
UNKNOWN	11	2	0	13	2.08
TOTAL	461	157	6	624	100.00

1988 PUBLIC BUS ACCIDENTS
ROADWAY SURFACE CONDITION BY ACCIDENT TYPE

SURFACE CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRY	303	97	6	406	65.06
WET	127	47	0	174	27.88
ICY	13	4	0	17	2.72
SNOW	5	5	0	10	1.60
SLUSH	4	2	0	6	0.96
MUDDY	1	0	0	1	0.16
OTHER	0	1	0	1	0.16
UNKNOWN	8	1	0	9	1.44
TOTAL	461	157	6	624	100.00

1988 PUBLIC BUS ACCIDENTS
LIGHTING CONDITION BY ACCIDENT TYPE

LIGHTING CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DAYLIGHT	356	123	5	484	77.56
DARK/FULL ILLUMINATION	48	12	1	61	9.78
DARK/SOME ILLUMINATION	35	8	0	43	6.89
DUSK	8	4	0	12	1.92
DARK/NO ILLUMINATION	4	3	0	7	1.12
DAWN	2	5	0	7	1.12
UNKNOWN	8	2	0	10	1.60
TOTAL	461	157	6	624	100.00

14.8

1988 PUBLIC BUS ACCIDENTS
ACCIDENT TYPE BY WEATHER CONDITION

WEATHER CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
CLEAR	241	70	2	313	50.16
CLOUDY	123	49	3	175	28.04
RAINING	80	29	0	109	17.47
SNOW/SLEET	10	8	0	18	2.88
OTHER	0	1	1	8	0.16
UNKNOWN	7	0	0	1	1.28
TOTAL	461	157	6	624	100.00

14.9

1988 PUBLIC BUS ACCIDENTS
ACCIDENT HOUR BY ACCIDENT TYPE

ACCIDENT HOUR	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
Mid. - 1 am	7	1	0	8	1.28
1 am - 2 am	4	1	0	5	0.80
2 am - 3 am	6	1	0	7	1.12
3 am - 4 am	2	0	0	2	0.32
4 am - 5 am	0	0	0	0	0.00
5 am - 6 am	1	2	0	3	0.48
6 am - 7 am	10	4	1	15	2.40
7 am - 8 am	17	8	1	26	4.17
8 am - 9 am	35	13	2	50	8.01
9 am - 10 am	30	10	0	40	6.41
10 am - 11 am	29	12	0	41	6.57
11 am - Noon	27	12	0	39	6.25
Noon - 1 pm	29	7	0	36	5.77
1 pm - 2 pm	27	6	1	34	5.45
2 pm - 3 pm	31	7	0	38	6.09
3 pm - 4 pm	49	24	0	73	11.70
4 pm - 5 pm	33	16	1	50	8.01
5 pm - 6 pm	42	11	0	53	8.49
6 pm - 7 pm	22	7	0	29	4.65
7 pm - 8 pm	12	1	0	13	2.08
8 pm - 9 pm	15	4	0	19	3.04
9 pm - 10 pm	13	5	0	18	2.88
10 pm - 11 pm	7	1	0	8	1.28
11 pm - Mid.	6	3	0	9	1.44
UNKNOWN	7	1	0	8	1.28
TOTAL	461	157	6	624	100.00

SECTION 15



COMMERCIAL VEHICLES

1988 COMMERCIAL VEHICLE ACCIDENTS

As presented in this report, a commercial vehicle is defined as any motor vehicle or trailer licenced for commercial purposes. Vehicles in this category range from taxis to combination truck units to tractor trailer rigs. During 1988, there were 602,785 commercial vehicles licenced in British Columbia. This is an increase of 3% from the previous year.

Commercial vehicles involved in traffic accidents totalled 20,104 in 1988, which is an increase of 31%. Seventy-six percent of these vehicles were involved in accidents involving only property damage, 23% in accidents involving personal injury and 1% were involved in fatal accidents.

The greatest number of commercial vehicle accidents occurred in the month of November.

**1988 COMMERCIAL VEHICLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE**

- ALL DRIVERS/VEHICLES INVOLVED -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE FAILING TO YIELD RIGHT OF WAY	1,585	848	21	2,454	14.95
FOLLOWING TOO CLOSELY	1,303	683	9	1,995	12.15
BACKING UNSAFELY	812	502	2	1,316	8.02
WEATHER CONDITION	1,266	48	0	1,314	8.01
DRIVING AT UNSAFE SPEED	852	296	3	1,151	7.01
WILD ANIMAL	541	388	17	946	5.76
ALCOHOL INVOLVEMENT	626	42	0	668	4.07
IMPROPER TURNING	265	240	16	521	3.17
IGNORING TRAFFIC CONTROL DEVICE	377	95	3	475	2.89
CUTTING IN	253	195	4	452	2.75
DRIVER INEXPERIENCE	346	61	0	407	2.48
IMPROPER PASSING	251	100	3	354	2.16
VISIBILITY IMPAIRED	257	48	2	307	1.87
AVOIDING VEH/PED/CYCLE	190	69	0	259	1.58
DRIVING ON WRONG SIDE	166	68	4	238	1.45
ROAD MAINTENANCE/ CONSTRUCTION	134	84	8	226	1.38
DEFECTIVE BRAKES	138	49	0	187	1.14
INSECURE LOAD	101	53	2	156	0.95
OBSTRUCTION/DEBRIS ON ROAD	84	33	1	118	0.72
FAILING TO SIGNAL	85	22	0	107	0.65
DRIVERLESS VEHICLE	65	12	0	77	0.47
ROAD/INTERSECTION DESIGN	65	7	0	72	0.44
DEFECTIVE TIRES	57	15	0	72	0.44
DOMESTIC ANIMAL	48	22	0	70	0.43
FELL ASLEEP	60	5	0	65	0.40
OVERSIZE VEHICLE	26	35	4	65	0.40
PAVEMENT CONDITION	61	3	0	64	0.39
SUNLIGHT GLARE	41	16	0	57	0.35
PEDESTRIAN ERROR/CONFUSION (RESULT OF) DIRECTLY PRECEDING ACCIDENT	27	20	0	47	0.29
DEFECTIVE ENGINE	6	33	5	44	0.27
DEFECTIVE TOW HITCH	23	20	0	43	0.26
EXTREME FATIGUE	28	10	0	38	0.23
ROADSIDE HAZARD	34	3	0	37	0.23
INSUFFICIENT TRAFFIC CONTROL	18	15	1	34	0.21
DEFECTIVE SUSPENSION	24	10	0	34	0.21
OTHER	16	10	0	26	0.16
	12	9	0	21	0.13
	1,386	500	10	1,896	10.63
TOTAL	11,629	4,669	115	16,413	100.00

NOTE: "OTHER" includes those factors with less than 20 occurrences.

1988 COMMERCIAL VEHICLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE

- COMMERCIAL DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	966	486	13	1,465	13.67
BACKING UNSAFELY	1,092	40	0	1,132	10.56
FAILING TO YIELD RIGHT OF WAY	615	362	1	978	9.13
FOLLOWING TOO CLOSELY	477	332	1	810	7.56
WEATHER CONDITION	608	191	0	799	7.46
WILD ANIMAL	623	41	0	664	6.20
DRIVING AT UNSAFE SPEED	379	270	8	657	6.13
IMPROPER TURNING	259	53	1	313	2.92
ALCOHOL INVOLVEMENT	138	98	6	242	2.26
IGNORING TRAFFIC CONTROL DEVICE	145	92	3	240	2.24
CUTTING IN	202	27	0	229	2.14
DRIVER INEXPERIENCE	153	53	1	207	1.93
VISIBILITY IMPAIRED	138	45	0	183	1.71
AVOIDING VEH/PED/CYCLIST	124	41	3	168	1.57
IMPROPER PASSING	116	27	1	144	1.34
ROAD MAINTENANCE/ CONSTRUCTION	108	35	0	143	1.33
DEFECTIVE BRAKES	78	41	2	121	1.13
DRIVING ON WRONG SIDE	76	39	2	117	1.09
INSECURE LOAD	78	32	1	111	1.04
OBSTRUCTION/DEBRIS ON ROAD	70	14	0	84	0.78
OVERSIZE VEHICLE	59	3	0	62	0.58
DOMESTIC ANIMAL	55	3	0	58	0.54
DEFECTIVE TIRES	39	17	0	56	0.52
FELL ASLEEP	22	31	2	55	0.51
DRIVERLESS VEHICLE	48	5	0	53	0.49
ROAD/INTERSECTION DESIGN	40	12	0	52	0.49
PAVEMENT CONDITION	34	14	0	48	0.45
FAILING TO SIGNAL	37	8	0	45	0.42
DEFECTIVE TOW HITCH	31	2	0	33	0.31
EXTREME FATIGUE	14	14	0	28	0.26
SUNLIGHT GLARE	13	12	0	25	0.23
ROADSIDE HAZARD	17	6	0	23	0.21
DEFECTIVE ENGINE	18	4	0	22	0.21
OTHER	1,026	320	4	1,350	12.58
TOTAL	7,898	2,770	49	10,717	100.00

NOTE: "OTHER" includes those factors with less than 21 occurrences.

1988 COMMERCIAL VEHICLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE

- OTHER DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
FAILING TO YIELD RIGHT OF WAY	688	321	8	1,017	17.85
DRIVING WITHOUT DUE CARE	619	362	8	989	17.36
FOLLOWING TOO CLOSELY	335	170	1	506	8.88
WEATHER CONDITION	244	105	3	352	6.18
DRIVING AT UNSAFE SPEED	162	118	9	289	5.07
ALCOHOL INVOLVEMENT	127	142	10	279	4.90
IGNORING TRAFFIC CONTROL DEVICE	108	103	1	212	3.72
BACKING UNSAFELY	174	8	0	182	3.20
CUTTING IN	144	34	0	178	3.13
IMPROPER PASSING	141	21	1	163	2.86
IMPROPER TURNING	118	42	2	162	2.84
DRIVER INEXPERIENCE	98	47	2	147	2.58
DRIVING ON WRONG SIDE	58	45	6	109	1.91
VISIBILITY IMPAIRED	52	24	0	76	1.33
AVOIDING VEH/PED/CYCLIST	42	27	1	70	1.23
ROAD MAINTENANCE/ CONSTRUCTION	30	14	0	44	0.77
PEDESTRIAN ERROR/CONFUSION	2	30	5	37	0.65
DEFECTIVE BRAKES	23	12	0	35	0.61
FAILING TO SIGNAL	28	4	0	32	0.56
OBSTRUCTION/DEBRIS ON ROAD (RESULT OF) DIRECTLY PRECEDING ACCIDENT	15	8	0	23	0.40
SUNLIGHT GLARE	11	11	0	22	0.39
ROAD/INTERSECTION DESIGN	14	8	0	22	0.39
DRIVERLESS VEHICLE	17	3	0	20	0.35
DEFECTIVE ENGINE	17	2	0	19	0.33
DEFECTIVE TIRES	10	6	0	16	0.28
INSUFFICIENT TRAFFIC CONTROL	9	5	0	14	0.25
ROADSIDE HAZARD	4	7	0	11	0.19
FELL ASLEEP	7	4	0	11	0.19
DEFECTIVE BRAKELIGHTS	4	4	2	10	0.18
PAVEMENT CONDITION	5	4	0	9	0.16
DEFECTIVE HEADLIGHTS	7	2	0	9	0.16
DOMESTIC ANIMAL	5	3	0	8	0.14
INSECURE LOAD	5	2	0	7	0.12
OTHER	6	1	0	7	0.12
	402	200	7	609	10.69
TOTAL	3,731	1,899	66	5,696	100.00

NOTE: "OTHER" includes those factors with less than 6 occurrences.

MAJOR CONTRIBUTING FACTORS IN COMMERCIAL VEHICLE ACCIDENTS

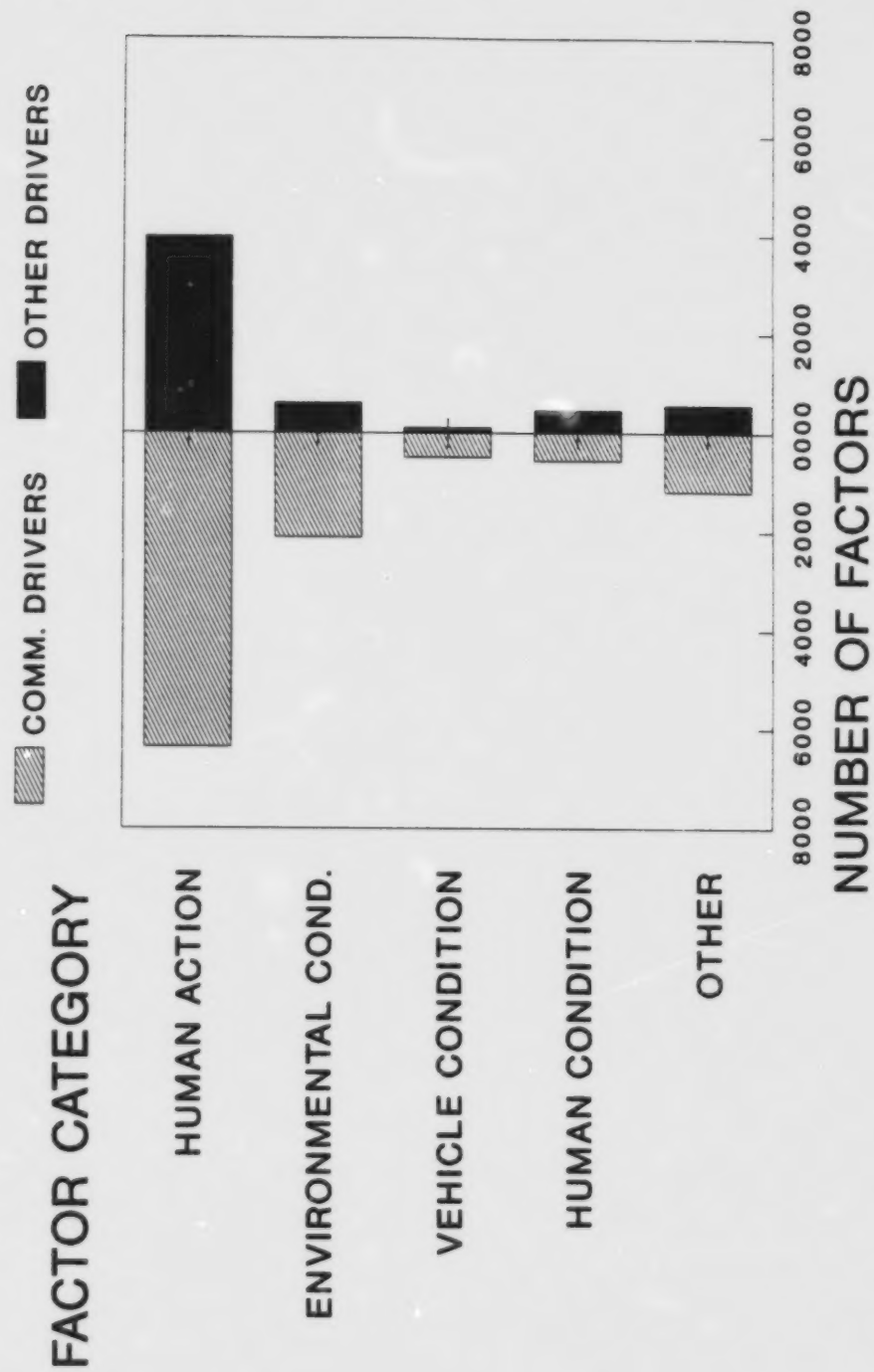


fig. 35

1988 COMMERCIAL VEHICLE ACCIDENTS

NUMBER OF COMMERCIAL VEHICLES INVOLVED IN ACCIDENTS BY MONTH

MONTH	NUMBER OF VEHICLES	PERCENT OF TOTAL
JANUARY	1,639	8.15
FEBRUARY	1,796	8.93
MARCH	1,546	7.69
APRIL	1,293	6.43
MAY	1,493	7.43
JUNE	1,585	7.88
JULY	1,586	7.89
AUGUST	1,711	8.51
SEPTEMBER	1,669	8.30
OCTOBER	1,784	8.87
NOVEMBER	2,099	10.44
DECEMBER	1,903	9.47
TOTAL	20,104	100.00

1988 COMMERCIAL VEHICLE ACCIDENTS

NUMBER OF VEHICLES INVOLVED IN ACCIDENTS BY VEHICLE TYPE

VEHICLE TYPE	ACCIDENT TYPE			TOTAL VEHICLES	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
SINGLE UNIT TRUCK, LIGHT	5,310	1,618	25	6,953	34.59
PASSENGER CAR	4,619	1,604	6	6,229	30.98
*SINGLE UNIT TRUCK, HEAVY	1,482	442	19	1,943	9.66
*TRACTOR TRAILER	1,323	349	32	1,704	8.48
PUBLIC BUS	415	145	5	565	2.81
*HEAVY TRUCK/TRAILER	459	101	5	565	2.81
*LOGGING TRUCK/POLE TRL	331	119	10	460	2.29
*TRACTOR TRAILER & PUP	288	92	10	390	1.94
TRUCK AND CAMPER	201	84	0	285	1.42
*LIGHT TRUCK/TRAILER	191	42	0	233	1.16
TOW TRUCK	101	51	2	154	0.77
SCHOOL BUS	110	37	3	150	0.75
GENERAL CONSTRUCTION	76	18	1	95	0.47
TRUCK, CAMPER AND TRAILER	47	16	1	64	0.32
CAR & TRAILER	32	13	0	45	0.22
ROAD CONSTRUCTION	40	3	0	43	0.21
MOTOR HOME	30	7	0	37	0.18
BICYCLE	1	21	0	22	0.11
MOTORCYCLE	5	16	0	21	0.10
MOBILE CRANE	9	3	0	12	0.06
FARM VEHICLE	8	3	0	11	0.05
TRAILER ONLY	5	1	0	6	0.03
MOPED	0	2	0	2	0.01
ATV - ALL TERRAIN CYCLE	0	1	0	1	0.00
INTERCITY BUS	1	0	0	1	0.00
MOTOR HOME/TRAILER	1	0	0	1	0.00
OTHER	48	25	1	74	0.37
UNKNOWN	30	8	0	38	0.19
TOTAL	15,163	4,821	120	20,104	100.00

*These vehicles are defined as weighing 10,900 kg or over.

1988 COMMERCIAL VEHICLE ACCIDENTS
PRIMARY ACCIDENT OCCURRENCE BY ACCIDENT TYPE

PRIMARY ACCIDENT OCCURRENCE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
REAR END →→	3,030	1,490	6	4,526	22.77
RIGHT ANGLE COLLISION →↘	1,661	812	18	2,491	12.53
SIDE SWIPE ↗↘	1,080	186	13	1,279	6.43
BACKING UP ←	1,120	46	0	1,166	5.87
OFF ROAD - RIGHT ↗↘	748	376	7	1,131	5.69
LEFT TURN ACROSS ONCOMING TRAFFIC ↘↗	568	221	3	792	3.98
OVERTAKING ↗↘	644	92	2	738	3.71
OFF ROAD - LEFT ↗↘	465	253	10	728	3.66
HEAD ON →←	412	200	37	649	3.27
LEFT TURN - HEAD ON →↘	232	86	2	320	1.61
RIGHT TURN - REAR END →↘	145	22	0	167	0.84
LEFT TURN - ONE WAY ↗↘	124	25	1	150	0.75
RIGHT TURN - HEAD ON ↗↘	79	14	2	95	0.48
ONE WAY STREET ↗↘	59	7	0	66	0.33
RIGHT TURN - SAME DIRECTION →→	55	11	0	66	0.33
RIGHT TURN - OPPOSITE DIRECTION ↗↘	14	6	0	20	0.10
OTHER	4,016	603	15	4,634	23.31
UNKNOWN	711	147	1	859	4.32
TOTAL	15,163	4,597	117	19,877	100.00

1988 COMMERCIAL VEHICLE ACCIDENTS
ACCIDENT LOCATION BY ACCIDENT TYPE

ACCIDENT LOCATION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
BETWEEN INTERSECTIONS	5,919	1,721	79	7,719	38.83
AT INTERSECTION	5,350	2,069	25	7,444	37.45
ROAD/DRIVEWAY INTERSECTION	1,098	298	5	1,401	7.05
PARKING LOT	1,317	50	1	1,368	6.88
BRIDGE	282	135	4	421	2.12
OFF HIGHWAY	194	43	0	237	1.19
INDUSTRIAL ROAD	142	41	2	185	0.93
ENTRANCE RAMP	67	33	0	100	0.50
RAILROAD CROSSING	54	26	1	81	0.41
EXIT RAMP	48	18	0	66	0.33
ENTRANCE ACCELERATION LANE	34	14	0	48	0.24
ENTRANCE INTERSECTION	36	8	0	44	0.22
EXIT INTERSECTION	22	6	0	28	0.14
TUNNEL	19	9	0	28	0.14
FERRY OR DOCK	18	4	0	22	0.11
EXIT DECELERATION LANE	8	9	0	17	0.09
OTHER	72	27	0	99	0.50
UNKNOWN	483	86	0	569	2.86
TOTAL	15,163	4,597	117	19,877	100.00

1988 COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE

-PROPERTY DAMAGE ACCIDENTS ONLY-

VEHICLE TYPE	C A N A D A							U S A				
	BC	AL	MA	SA	ON	YT	OTHER CANADIAN	WA	OR	CA	ID	OTHER USA
PASSENGER CAR	11,788	283	21	31	103	14	34	45	11	36	0	52
SINGLE UNIT TRUCK, LIGHT	6,443	197	15	14	31	9	12	12	2	8	1	16
*SINGLE UNIT TRUCK, HEAVY	1,814	51	2	3	6	3	1	4	0	3	0	3
*TRACTOR TRAILER	1,040	189	22	18	18	2	5	24	1	2	2	11
*HEAVY TRUCK/TRAILER	460	29	3	4	7	1	1	4	1	1	0	5
PUBLIC BUS	342	6	0	1	0	0	0	4	0	2	1	1
*LOGGING TRUCK AND POLE TRAILER	322	3	0	4	0	1	1	0	0	0	0	0
*TRACTOR TRAILER AND PUP	210	51	2	10	3	1	0	5	0	0	0	1
TRUCK AND CAMPER	244	11	1	0	2	0	0	0	0	0	0	0
LIGHT TRUCK/TRAILER	172	13	1	1	1	0	0	2	0	0	0	1
TOW TRUCK	97	2	0	0	0	0	0	0	0	0	0	0
SCHOOL BUS	105	0	0	0	0	0	0	2	0	0	0	0
GENERAL CONSTRUCTION	71	2	0	0	0	0	0	0	0	0	0	0
MOTOR HOME	37	11	3	2	2	0	0	0	0	3	0	3
CAR AND TRAILER	63	5	1	0	1	0	0	1	1	1	0	0
TRUCK CAMPER AND TRAILER	51	5	0	1	1	0	0	0	2	2	0	0
ROAD CONSTRUCTION	41	0	0	0	0	0	0	0	0	0	0	0
MOTORCYCLE	29	3	0	0	0	0	1	0	0	0	0	0
BICYCLE	25	0	0	0	0	0	0	0	0	0	0	0
TRAILER ONLY	3	1	0	0	0	0	0	0	0	0	0	0
FARM VEHICLE	9	0	0	0	0	0	0	0	0	0	0	0
MOBILE CRANE	6	0	0	0	1	0	0	0	0	0	0	0
MOTORHOME/TRAILER	3	0	0	0	0	0	0	0	0	0	0	1
INTERCITY BUS	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	35	1	0	0	0	0	0	0	0	0	0	0
UNKNOWN	47	2	0	0	0	0	0	0	0	0	0	1
TOTAL	23,457	865	71	89	176	31	55	103	18	58	4	95

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

1988 COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE

-PROPERTY DAMAGE ACCIDENTS ONLY-

cont'd ...

VEHICLE TYPE	FOREIGN DRIVER'S LICENCE	UNKNOWN	TOTAL	PERCENT OF TOTAL
PASSENGER CAR	104	1,773	14,295	49.68
SINGLE UNIT TRUCK, LIGHT	14	641	7,415	25.77
*SINGLE UNIT TRUCK, HEAVY	1	431	2,322	8.07
*TRACTOR TRAILER	1	208	1,543	5.36
*HEAVY TRUCK/TRAILER	0	107	623	2.17
PUBLIC BUS	0	65	422	1.46
*LOGGING TRUCK AND POLE TRAILER	0	37	368	1.28
*TRACTOR TRAILER AND PUP	0	34	317	1.10
TRUCK AND CAMPER	1	41	300	1.04
LIGHT TRUCK/TRAILER	1	25	217	0.75
TOW TRUCK	0	12	111	0.38
SCHOOL BUS	0	10	117	0.41
GENERAL CONSTRUCTION	0	4	77	0.27
MOTOR HOME	10	10	81	0.28
CAR AND TRAILER	1	8	82	0.29
TRUCK CAMPER AND TRAILER	1	8	71	0.25
ROAD CONSTRUCTION	0	3	44	0.15
MOTORCYCLE	0	13	46	0.16
BICYCLE	0	3	28	0.10
TRAILER ONLY	0	12	16	0.06
FARM VEHICLE	0	0	9	0.03
MOBILE CRANE	0	2	9	0.03
MOTORHOME/TRAILER	0	4	7	0.02
INTERCITY BUS	0	1	1	0.00
OTHER	0	32	68	0.24
UNKNOWN	0	137	187	0.65
TOTAL	134	3,620	28,776	100.00

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

1988 COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE
-PERSONAL INJURY ACCIDENTS ONLY-

VEHICLE TYPE	C A N A D A							U S A				
	BC	AL	SA	MA	ON	YT	OTHER CANADIAN	WA	OR	CA	ID	OTHER USA
PASSENGER CAR	4,385	120	11	11	32	3	4	13	2	19	2	13
SINGLE UNIT TRUCK, LIGHT	2,116	58	4	4	4	3	5	5	0	3	0	8
*SINGLE UNIT TRUCK, HEAVY	504	18	1	1	2	1	1	1	0	0	0	1
*TRACTOR TRAILER	258	66	8	13	3	2	1	5	1	1	0	5
BICYCLE	166	0	0	0	1	0	0	0	0	0	0	0
*LOGGING TRUCK AND POLE TRAILER	127	3	0	0	0	0	0	3	0	0	0	1
*HEAVY TRUCK/TRAILER	125	0	0	0	0	0	0	0	0	0	0	0
TRUCK AND CAMPER	88	12	0	0	0	0	0	1	0	1	0	1
*TRACTOR TRAILER AND PUP	109	2	0	0	0	0	0	0	1	0	0	0
MOTORCYCLE	55	26	7	1	0	0	2	3	0	0	0	0
TOW TRUCK	86	4	0	0	1	1	0	1	0	0	0	0
LIGHT TRUCK/TRAILER	53	0	0	1	0	0	0	0	0	0	0	0
SCHOOL BUS	37	3	1	0	0	0	0	0	0	0	0	0
CAR AND TRAILER	34	0	0	0	0	0	0	1	0	2	0	0
MOTOR HOME	26	1	0	0	1	0	0	3	0	0	0	1
TRUCK CAMPER AND TRAILER	18	2	1	0	1	0	0	0	0	0	0	0
GENERAL CONSTRUCTION	18	0	0	0	0	0	0	0	0	0	0	1
FARM VEHICLE	18	0	0	0	0	0	1	2	0	0	0	0
MOBILE CRANE	2	0	0	0	0	0	0	0	0	0	0	0
ROAD CONSTRUCTION	3	0	0	0	0	0	0	0	0	0	0	0
MOPED	3	0	0	0	0	0	0	0	0	0	0	0
ATV - ALL TERRAIN CYCLE	1	0	0	0	0	0	0	0	0	0	0	0
ATV - TRAIL BIKE	1	0	0	0	0	0	1	0	0	0	0	0
TRAILER ONLY	1	0	0	0	0	0	0	0	0	0	0	0
OTHER	239	0	0	0	0	0	0	0	0	0	0	0
UNKNOWN	15	0	0	0	1	0	0	0	0	1	0	0
TOTAL	8,489	315	33	31	46	10	15	38	4	27	2	31

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

cont'd

1988 COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE

-PERSONAL INJURY ACCIDENTS ONLY-

cont'd ...

VEHICLE TYPE	FOREIGN DRIVER'S LICENCE	UNKNOWN	TOTAL	PERCENT OF TOTAL
PASSENGER CAR	27	137	4,779	50.76
SINGLE UNIT TRUCK, LIGHT	3	52	2,265	24.06
*SINGLE UNIT TRUCK, HEAVY	0	43	573	6.09
*TRACTOR TRAILER	0	27	390	4.14
BICYCLE	0	6	172	1.83
PUBLIC BUS	0	12	146	1.55
*LOGGING TRUCK AND POLE TRAILER	0	2	127	1.35
*HEAVY TRUCK/TRAILER TRUCK AND CAMPER	0	12	116	1.23
*TRACTOR TRAILER AND PUP	0	2	114	1.21
MOTORCYCLE	0	9	104	1.11
TOW TRUCK	0	1	93	0.99
LIGHT TRUCK/TRAILER	0	2	56	0.60
SCHOOL BUS	0	3	47	0.50
CAR AND TRAILER	0	0	38	0.40
MOTOR HOME	0	0	28	0.30
TRUCK CAMPER AND TRAILER	0	0	22	0.23
GENERAL CONSTRUCTION	0	1	23	0.24
FARM VEHICLE	1	0	18	0.19
MOBILE CRANE	0	0	3	0.03
ROAD CONSTRUCTION	0	0	3	0.03
MOPED	0	0	2	0.02
ATV - ALL TERRAIN CYCLE	0	0	1	0.01
ATV - TRAIL BIKE	0	0	1	0.01
TRAILER ONLY	0	0	1	0.01
OTHER	0	24	265	2.81
UNKNOWN	0	11	26	0.27
TOTAL	31	344	9,416	100.00

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

1988 COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE

-FATAL ACCIDENTS ONLY-

VEHICLE TYPE	C A N A D A							U S A				
	BC	AL	SA	MA	ON	YT	OTHER CANADIAN	WA	OR	CA	ID	OTHER USA
PASSENGER CAR	49	3	0	0	0	0	0	1	0	1	0	0
SINGLE UNIT TRUCK, LIGHT	41	5	0	0	0	0	0	0	0	0	0	1
*TRACTOR TRAILER	22	6	2	0	1	0	0	1	0	0	0	0
*SINGLE UNIT TRUCK, HEAVY	20	0	0	0	0	0	0	0	0	0	0	0
*LOGGING TRUCK AND POLE TRAILER	11	0	0	0	0	0	0	0	0	0	0	0
*TRACTOR TRAILER AND PUP	6	3	0	0	1	0	0	0	0	0	0	0
BICYCLE	8	0	0	0	0	0	0	0	0	0	0	0
*HEAVY TRUCK/TRAILER	5	1	0	0	0	0	0	0	0	0	0	0
LOCAL TRANSIT BUS	5	0	0	0	0	0	0	0	0	0	0	0
SCHOOL BUS	3	0	0	0	0	0	0	0	0	0	0	0
MOTOR HOME	1	0	0	1	0	0	0	0	0	0	0	0
TOW TRUCK	2	0	0	0	0	0	0	0	0	0	0	0
GENERAL CONSTRUCTION	1	0	0	0	0	0	0	0	0	0	0	0
MOTORCYCLE	1	0	0	0	0	0	0	0	0	0	0	0
TRUCK, CAMPER & TRAILER	1	0	0	0	0	0	0	0	0	0	0	0
OTHER	18	1	0	0	0	0	1	0	0	0	0	0
TOTAL	194	19	2	1	2	0	1	2	0	1	0	1

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

cont'd...

1988 COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE

-FATAL ACCIDENTS ONLY-

cont'd ...

VEHICLE TYPE	FOREIGN DRIVER'S LICENCE	UNKNOWN	TOTAL	PERCENT OF TOTAL
PASSENGER CAR	0	2	56	24.46
SINGLE UNIT TRUCK, LIGHT	0	1	48	20.96
*TRACTOR TRAILER	0	1	33	14.41
*SINGLE UNIT TRUCK, HEAVY	0	0	20	8.73
*LOGGING TRUCK AND POLE TRAILER	0	0	11	4.80
*TRACTOR TRAILER AND PUP	0	1	11	4.80
BICYCLE	0	0	8	3.50
*HEAVY TRUCK/TRAILER	0	1	6	2.62
LOCAL TRANSIT BUS	0	0	5	2.18
SCHOOL BUS	0	0	3	1.31
MOTOR HOME	0	0	2	0.87
TOW TRUCK	0	0	2	0.87
GENERAL CONSTRUCTION	0	0	1	0.44
MOTORCYCLE	0	0	1	0.44
TRUCK, CAMPER & TRAILER	0	0	1	0.44
OTHER	0	0	21	9.17
TOTAL	0	6	229	100.00

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

SECTION 16



HEAVY COMMERCIAL VEHICLES

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS

A heavy commercial vehicle is defined, for the purpose of these reports, as any single or combination truck unit over 10,900 kg GVW. Vehicles in this category include single unit truck/heavy, tractor trailer, tractor trailer and pup, combination unit truck/heavy, and logging truck & pole trailer.

The commercial vehicle reports which precede these include the heavy commercial vehicles examined in this set. In order to do year to year comparisons, it is necessary to refer to the commercial vehicle reports for previous years and identify and extract the heavy commercial vehicle figures.

Heavy commercial vehicles involved in traffic accidents totalled 6,564 in 1988. Of these accidents, 78% were property damage only, 20% were personal injury accidents, and 1% were fatal accidents.

The majority of heavy commercial vehicle accidents occurred during the month of November.

**1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS**

- ALL DRIVERS/VEHICLES INVOLVED -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	466	210	16	692	13.16
BACKING UNSAFELY	411	18	0	429	8.16
WEATHER CONDITION	276	93	1	370	7.04
FAILING TO YIELD RIGHT OF WAY	250	93	5	348	6.62
DRIVING AT UNSAFE SPEED	162	170	11	343	6.52
FOLLOWING TOO CLOSELY	180	107	0	287	5.46
WILD ANIMAL	195	13	0	208	3.96
IMPROPER TURNING	157	26	3	186	3.54
CUTTING IN	144	22	0	166	3.16
ALCOHOL INVOLVEMENT	74	78	11	163	3.10
IMPROPER PASSING	102	17	2	121	2.30
DRIVER INEXPERIENCE	91	24	2	117	2.23
AVOIDING VEH/PED/CYCLE	72	31	3	106	2.02
DRIVING ON WRONG SIDE OF ROAD	59	32	4	95	1.81
VISIBILITY IMPAIRED	63	25	0	88	1.67
IGNORING TRAFFIC CONTROL DEVICE	47	36	3	86	1.64
INSECURE LOAD	62	22	1	85	1.62
ROAD MAINTENANCE/ CONSTRUCTION	68	16	0	84	1.60
DEFECTIVE BRAKES	44	25	2	71	1.35
DRIVERLESS VEHICLE	50	6	0	56	1.07
OVERSIZE VEHICLE	53	2	0	55	1.05
OBSTRUCTION/DEBRIS ON ROAD	37	11	0	48	0.91
ROAD INTERSECTION/DESIGN	31	9	0	40	0.76
DEFECTIVE TIRES	23	6	0	29	0.55
DEFECTIVE TOW HITCH	26	1	0	27	0.51
FAILING TO SIGNAL	20	5	0	25	0.48
PAVEMENT CONDITION	18	4	0	22	0.42
DOMESTIC ANIMAL	20	1	0	21	0.40
FELL ASLEEP	6	10	1	17	0.32
(RESULT OF) DIRECTLY PRECEDING ACCIDENT	7	9	0	16	0.30
DEFECTIVE SUSPENSION	7	8	0	15	0.29
DEFECTIVE ENGINE	8	5	0	13	0.25
SUNLIGHT GLARE	6	7	0	13	0.25
EXTREME FATIGUE	7	3	1	11	0.21
INSUFFICIENT TRAFFIC CONTROL	10	0	0	10	0.19
DEFECTIVE HEADLIGHTS	3	4	0	7	0.13
DEFECTIVE STEERING	5	2	0	7	0.13
DEFECTIVE TURN SIGNALS	3	4	0	7	0.13
ROADSIZE HAZARD	4	3	0	7	0.13
OTHER	593	168	5	766	14.56
TOTAL	3,860	1,326	71	5,257	100.00

**1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS**

- HEAVY COMMERCIAL VEHICLE DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	294	111	9	414	11.94
BACKING UNSAFELY	365	14	0	379	10.93
WEATHER CONDITION	183	55	0	238	6.87
FOLLOWING TOO CLOSELY	126	87	0	213	6.15
DRIVING AT UNSAFE SPEED	99	108	6	213	6.15
WILD ANIMAL	195	12	0	207	5.97
FAILING TO YIELD RIGHT OF WAY	106	44	0	150	4.33
IMPROPER TURNING	127	15	1	143	4.13
CUTTING IN	81	8	0	89	2.57
INSECURE LOAD	57	22	1	80	2.31
AVOIDING VEH/PED/CYCLE	51	17	2	70	2.02
DEFECTIVE BRAKES	39	22	2	63	1.82
ROAD MAINTENANCE/CONSTRUCTION	48	13	0	61	1.76
DRIVER INEXPERIENCE	48	9	1	58	1.67
OVERSIZE VEHICLE	52	2	0	54	1.56
VISIBILITY IMPAIRED	42	12	0	54	1.56
ALCOHOL INVOLVEMENT	26	20	3	49	1.41
DRIVING ON WRONG SIDE OF ROAD	34	13	0	47	1.36
IGNORING TRAFFIC CONTROL DEVICE	29	14	2	45	1.30
DRIVERLESS VEHICLE	40	4	0	44	1.27
IMPROPER PASSING	30	7	1	38	1.10
OBSTRUCTION/DEBRIS ON ROAD	26	6	0	32	0.92
ROAD/INTERSECTION DESIGN	20	6	0	26	0.75
DEFECTIVE TIRES	19	4	0	23	0.66
DEFECTIVE TOW HITCH	23	0	0	23	0.66
DOMESTIC ANIMAL	20	0	0	20	0.58
PAVEMENT CONDITION	13	3	0	16	0.46
DEFECTIVE SUSPENSION	7	8	0	15	0.43
FAILING TO SIGNAL	11	1	0	12	0.35
FELL ASLEEP	5	6	0	11	0.32
(RESULT OF) DIRECTLY PRECEDING ACCIDENT	4	4	0	8	0.23
DEFECTIVE ENGINE	7	1	0	8	0.23
DEFECTIVE STEERING	5	2	0	7	0.20
EXTREME FATIGUE	5	2	0	7	0.20
DEFECTIVE TURN SIGNALS	3	3	0	6	0.17
INSUFFICIENT TRAFFIC CONTROL	6	0	0	6	0.17
OTHER	425	110	2	537	15.49
TOTAL	2,671	765	30	3,466	100.00

**1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS**

- OTHER DRIVERS/VEHICLES ONLY -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE FAILING TO YIELD RIGHT OF WAY	172	99	7	278	15.52
WEATHER CONDITION	144	49	5	198	11.06
DRIVING AT UNSAFE SPEED	93	38	1	132	7.37
ALCOHOL INVOLVEMENT	63	62	5	130	7.26
IMPROPER PASSING	48	58	8	114	6.37
CUTTING IN	72	10	1	83	4.63
FOLLOWING TOO CLOSELY	63	14	0	77	4.30
DRIVER INEXPERIENCE	54	20	0	74	4.13
BACKING UNSAFELY	43	15	1	59	3.29
DRIVING ON WRONG SIDE OF ROAD	46	4	0	50	2.79
IMPROPER TURNING	25	19	4	48	2.68
IGNORING TRAFFIC CONTROL DEVICE	30	11	2	43	2.40
AVOIDING VEH/PED/CYCLE VISIBILITY IMPAIRED	18	22	1	41	2.29
ROAD MAINTENANCE/ CONSTRUCTION	21	14	1	36	2.01
OBSTRUCTION/DEBRIS ON ROAD	21	13	0	34	1.90
ROAD/INTERSECTION DESIGN	20	3	0	23	1.28
FAILING TO SIGNAL	11	5	0	16	0.89
DRIVERLESS VEHICLE	11	3	0	14	0.78
SUNLIGHT GLARE	9	4	0	13	0.73
(RESULT OF) DIRECTLY PRECEDING ACCIDENT	10	2	0	12	0.67
DEFECTIVE BRAKES	4	5	0	9	0.50
DEFECTIVE TIRES	3	5	0	8	0.45
FELL ASLEEP	5	3	0	8	0.45
PAVEMENT CONDITION	4	2	0	6	0.34
DEFECTIVE ENGINE	1	4	1	6	0.34
INSECURE LOAD	5	1	0	6	0.34
DEFECTIVE TOW HITCH	1	4	0	5	0.28
EXTREME FATIGUE	5	0	0	5	0.28
INSUFFICIENT TRAFFIC CONTROL	3	1	0	4	0.22
ILLNESS	2	1	1	4	0.22
OTHER	4	0	0	4	0.22
	0	3	0	3	0.17
	178	67	3	248	13.84
TOTAL	1,189	561	41	1,791	100.00

MAJOR CONTRIBUTING FACTORS IN HEAVY COMMERCIAL VEHICLE ACCIDENTS

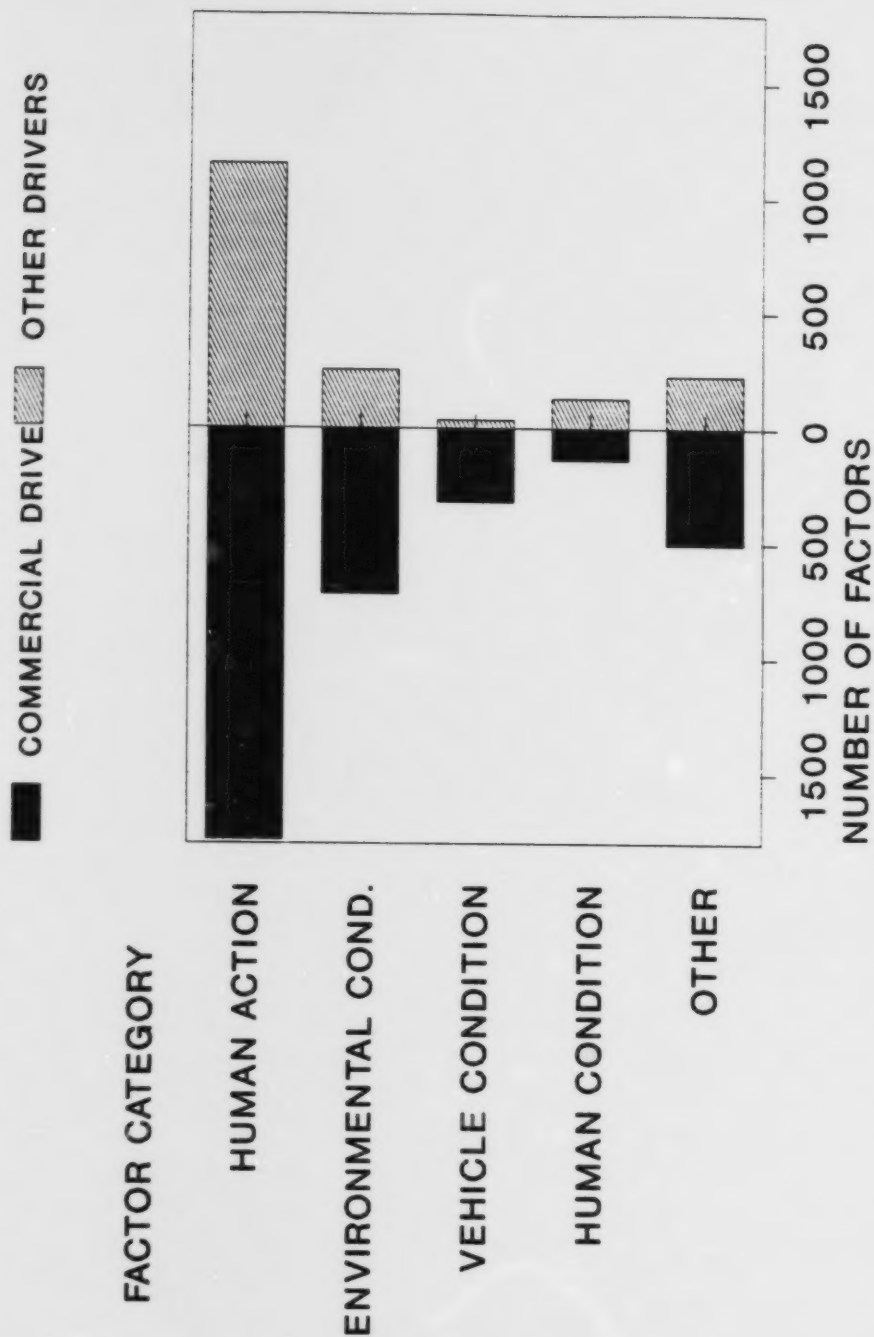
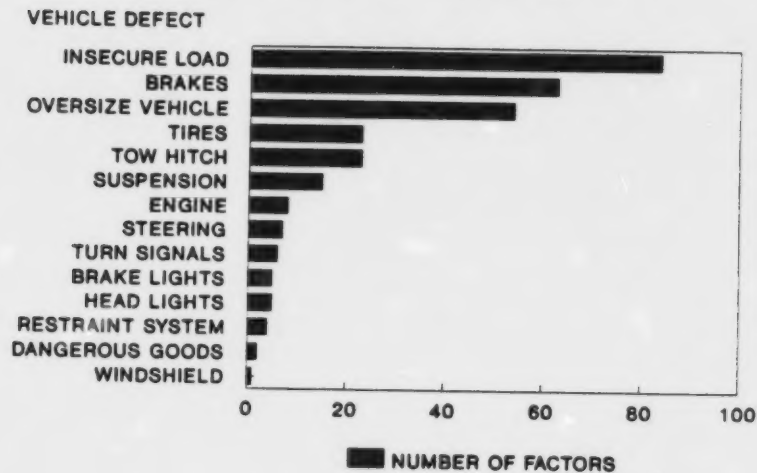


fig. 36

HEAVY COMMERCIAL VEHICLE DEFECT MAJOR CONTRIBUTING FACTORS



VEHICLE DEFECT MAJOR CONTRIBUTING FACTORS (ALL VEHICLES INCLUDED)

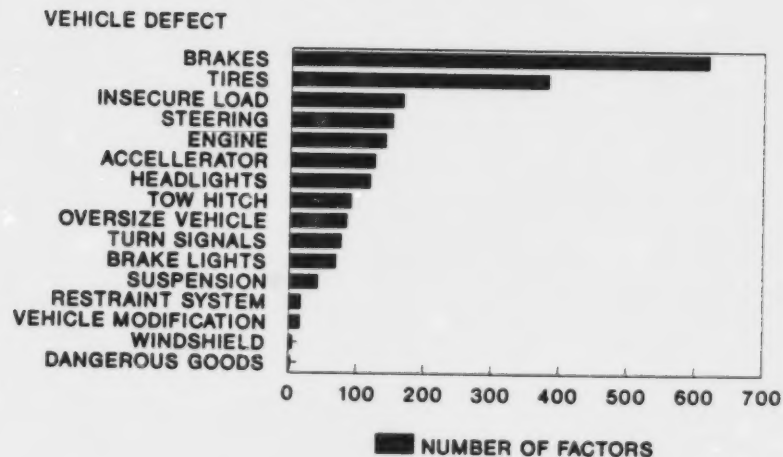


fig. 37

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS

NUMBER OF HEAVY COMMERCIAL VEHICLES INVOLVED IN ACCIDENTS BY MONTH

MONTH	NUMBER OF VEHICLES	PERCENT OF TOTAL
JANUARY	579	8.82
FEBRUARY	605	9.22
MARCH	488	7.43
APRIL	399	6.08
MAY	458	6.98
JUNE	462	7.04
JULY	505	7.69
AUGUST	573	8.73
SEPTEMBER	576	8.78
OCTOBER	606	9.23
NOVEMBER	707	10.77
DECEMBER	606	9.23
TOTAL	6,564	100.00

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
PRIMARY ACCIDENT OCCURENCE BY ACCIDENT TYPE

PRIMARY ACCIDENT OCCURRENCE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
REAR END →→	777	350	4	1,131	18.07
SIDE SWIPE ↔	552	105	13	670	10.70
RIGHT ANGLE COLLISION →↘	289	135	9	433	6.92
OFF ROAD - RIGHT ↘↘	270	145	4	419	6.69
BACKING UP ←	398	15	0	413	6.60
OVERTAKING ↔	241	26	1	268	4.28
HEAD ON →↔	155	78	26	259	4.14
OFF ROAD - LEFT ↘↘	142	93	5	240	3.83
LEFT TURN - ACROSS ONCOMING TRAFFIC ↘↘	70	41	2	113	1.81
LEFT TURN - HEAD ON →↔	36	20	2	58	0.93
RIGHT TURN - REAR END →→	45	7	0	52	0.83
LEFT TURN - ONE WAY ↘↘	35	7	1	43	0.69
RIGHT TURN - SAME DIRECTION →↘	25	4	0	29	0.46
ONE WAY STREET ↕↕	20	2	0	22	0.35
RIGHT TURN - HEAD ON ↘↘	13	3	2	18	0.29
RIGHT TURN - OPPOSITE DIRECTION ↘↘	5	1	0	6	0.10
OTHER	1,604	189	9	1,802	28.79
UNKNOWN	252	31	0	283	4.52
TOTAL	4,929	1,252	78	6,259	100.00

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS

ACCIDENT LOCATION BY ACCIDENT TYPE

ACCIDENT LOCATION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
BETWEEN INTERSECTIONS	2,152	583	53	2,788	44.54
AT INTERSECTION	1,396	432	18	1,846	29.49
PARKING LOT	457	9	1	467	7.46
ROAD/DRIVEWAY					
INTERSECTION	314	66	2	382	6.10
BRIDGE	122	51	3	176	2.81
OFF HIGHWAY	83	18	0	101	1.61
INDUSTRIAL ROAD	73	22	1	96	1.53
ENTRANCE RAMP	25	8	0	33	0.53
RAILROAD CROSSING	23	7	0	30	0.48
EXIT RAMP	16	6	0	22	0.35
ENTRANCE INTERSECTION	19	1	0	20	0.32
ENTRANCE ACCELERATION					
LANE	16	2	0	18	0.29
FERRY OR DOCK	10	3	0	13	0.21
TUNNEL	9	4	0	13	0.21
EXIT INTERSECTION	8	3	0	11	0.18
EXIT DECELERATION LANE	3	3	0	6	0.10
OTHER	39	12	0	51	0.81
UNKNOWN	164	22	0	186	2.97
TOTAL	4,929	1,252	78	6,259	100.00

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS

LIGHTING CONDITION BY ACCIDENT TYPE

LIGHTING CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DAYLIGHT	3,643	909	50	4,602	73.53
DARK/NO ILLUMINATION	427	144	19	590	9.43
DARK/SOME ILLUMINATION	363	99	5	467	7.46
DARK/FULL ILLUMINATION	191	41	2	234	3.74
DUSK	139	35	1	175	2.80
DAWN	105	15	1	121	1.93
UNKNOWN	59	9	0	68	1.09
OTHER	2	0	0	2	0.03
TOTAL	4,929	1,252	78	6,259	100.00

16.7

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS

WEATHER CONDITION BY ACCIDENT TYPE

WEATHER CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
CLEAR	2,282	504	39	2,825	45.13
CLOUDY	1,402	388	25	1,815	29.00
RAINING	822	234	7	1,063	16.98
SNOW/SLEET	294	100	6	400	6.39
FOG	39	12	1	52	0.83
STRONG WIND	4	0	0	4	0.06
SMOG/SMOKE	2	1	0	3	0.05
HAIL	0	1	0	1	0.02
OTHER	2	0	0	2	0.03
UNKNOWN	82	12	0	94	1.50
TOTAL	4,929	1,252	78	6,259	100.00

16.8

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
ROADWAY SURFACE CONDITION BY ACCIDENT TYPE

SURFACE CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRY	2,849	655	53	3,557	56.83
WET	1,296	369	15	1,680	26.84
SNOW	320	77	3	400	6.39
ICY	287	86	3	376	6.01
SLUSH	80	42	4	126	2.01
MUDDY	19	7	0	26	0.42
OTHER	0	1	0	1	0.02
UNKNOWN	78	15	0	93	1.49
TOTAL	4,929	1,252	78	6,259	100.00

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE

-PROPERTY DAMAGE ACCIDENTS ONLY-

VEHICLE TYPE	C A N A D A							U S A				
	BC	AL	SA	MA	ON	YT	OTHER CANADIAN	WA	OR	CA	ID	OTHER USA
PASSENGER CAR	2,103	62	9	4	10	2	3	8	1	4	0	6
*SINGLE UNIT TRUCK, HEAVY	1,814	51	3	2	6	3	1	4	0	3	0	3
*TRACTOR TRAILER	1,040	189	18	22	18	2	5	24	1	2	2	11
SINGLE UNIT TRUCK, LIGHT	622	24	3	2	1	0	2	4	0	0	0	4
*HEAVY TRUCK/TRAILER	460	29	4	3	7	1	1	4	1	1	0	5
*LOGGING TRUCK AND POLE TRAILER	322	3	4	0	0	1	1	0	0	0	0	0
*TRACTOR TRAILER AND PUP	210	51	10	2	3	1	0	5	0	0	0	1
TRUCK AND CAMPER	20	1	0	0	0	0	0	0	0	0	0	0
MOTOR HOME	6	6	1	0	1	0	0	0	0	0	0	0
LIGHT TRUCK/TRAILER	15	1	0	0	0	0	0	1	0	0	0	3
CAR AND TRAILER	8	1	0	1	0	0	0	1	1	0	0	0
PUBLIC BUS	11	0	0	0	0	0	0	0	0	0	0	0
TRUCK CAMPER AND TRAILER	3	2	0	0	1	0	0	0	0	0	0	0
MOTORCYCLE	3	1	0	0	0	0	1	0	0	0	0	0
GENERAL CONSTRUCTION	6	0	0	0	0	0	0	0	0	0	0	0
TRAILER ONLY	0	0	0	0	0	0	0	0	0	0	0	0
SCHOOL BUS	4	0	0	0	0	0	0	0	0	0	0	0
TOW TRUCK	2	0	0	0	0	0	0	0	0	0	0	0
ROAD CONSTRUCTION	4	0	0	0	0	0	0	0	0	0	0	0
MOTOR HOME/TRAILER	0	0	0	0	0	0	0	0	0	0	0	1
BICYCLE	2	0	0	0	0	0	0	0	0	0	0	0
MOBILE CRANE	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	10	0	0	0	0	0	0	0	0	0	0	0
UNKNOWN	4	0	0	0	0	0	0	0	0	0	0	1
TOTAL	6,669	421	52	36	47	10	14	51	4	10	2	35

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE

-PROPERTY DAMAGE ACCIDENTS ONLY-

cont'd ...

VEHICLE TYPE	FOREIGN DRIVER'S LICENCE	UNKNOWN	TOTAL	PERCENT OF TOTAL
PASSENGER CAR	16	626	2,844	31.21
*SINGLE UNIT TRUCK, HEAVY	1	431	2,322	25.48
*TRACTOR TRAILER	1	208	1,543	16.93
SINGLE UNIT TRUCK, LIGHT	1	183	846	9.28
*HEAVY TRUCK/TRAILER	0	107	623	6.86
*LOGGING TRUCK AND POLE TRAILER	0	37	368	4.04
*TRACTOR TRAILER AND PUP TRUCK AND CAMPER	0	34	317	3.48
MOTOR HOME	0	11	32	0.35
LIGHT TRUCK/TRAILER	2	2	21	0.23
CAR AND TRAILER	0	5	22	0.24
PUBLIC BUS	1	1	14	0.15
TRUCK CAMPER AND TRAILER	0	3	14	0.15
MOTORCYCLE	0	3	9	0.06
GENERAL CONSTRUCTION	0	2	7	0.08
TRAILER ONLY	0	0	6	0.10
SCHOOL BUS	0	6	6	0.07
TOW TRUCK	0	2	6	0.07
ROAD CONSTRUCTION	0	3	5	0.05
MOTOR HOME/TRAILER	0	0	4	0.04
BICYCLE	0	3	4	0.04
MOBILE CRANE	0	0	2	0.02
OTHER	0	1	1	0.01
UNKNOWN	0	7	7	0.19
	0	74	79	0.87
TOTAL	22	1,739	9,112	100.00

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE
-PERSONAL INJURY ACCIDENTS ONLY-

VEHICLE TYPE	C A N A D A							U S A				
	BC	AL	SA	MA	ON	YT	OTHER CANADIAN	WA	OR	CA	ID	OTHER USA
PASSENGER CAR	716	34	1	0	4	0	1	3	0	1	1	1
*SINGLE UNIT TRUCK, HEAVY	504	18	1	1	2	1	1	1	0	0	0	1
*TRACTOR TRAILER	258	66	8	13	3	2	1	5	1	1	0	5
SINGLE UNIT TRUCK, LIGHT	221	8	1	1	1	1	2	1	0	2	0	0
*LOGGING TRUCK AND POLE TRAILER	125	0	0	0	0	0	0	0	0	0	0	0
*HEAVY TRUCK/TRAILER	88	12	0	0	1	0	0	1	0	1	0	1
*TRACTOR TRAILER AND PUP	55	26	7	1	1	0	2	3	0	0	0	0
BICYCLE	18	0	0	0	0	0	0	0	0	0	0	0
MOTORCYCLE	18	0	0	0	0	0	0	0	0	0	0	0
TRUCK AND CAMPER	9	1	0	0	0	0	0	0	0	0	0	0
PUBLIC BUS	7	0	0	0	0	0	0	0	0	0	0	0
MOTOR HOME	7	1	0	0	0	0	0	0	0	0	0	1
CAR AND TRAILER	4	1	0	0	1	0	0	0	0	0	0	0
LIGHT TRUCK/TRAILER	4	0	0	0	0	0	0	0	0	0	0	0
TOW TRUCK	3	0	0	0	0	0	0	0	0	0	0	0
SCHOOL BUS	2	0	0	0	0	0	0	0	0	0	0	0
ATV-TRAIL BIKE	1	0	0	0	0	0	0	0	0	0	0	0
GENERAL CONSTRUCTION	1	0	0	0	0	0	0	0	0	0	0	0
TRUCK CAMPER AND TRAILER	1	0	0	0	0	0	0	0	0	0	0	0
OTHER	8	0	0	0	0	0	0	1	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2,050	167	18	16	13	4	7	15	1	5	1	9

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE

-PERSONAL INJURY ACCIDENTS ONLY-

cont'd ...

VEHICLE TYPE	FOREIGN DRIVER'S LICENCE	UNKNOWN	TOTAL	PERCENT OF TOTAL
PASSENGER CAR	4	24	790	23.47
*SINGLE UNIT TRUCK, HEAVY	0	43	573	32.36
*TRACTOR TRAILER	0	27	390	15.98
SINGLE UNIT TRUCK, LIGHT	0	6	244	10.00
*LOGGING TRUCK AND POLE TRAILER	0	2	127	5.20
*HEAVY TRUCK/TRAILER	0	12	116	4.75
*TRACTOR TRAILER AND PUP	0	9	104	4.26
BICYCLE	0	1	19	0.74
MOTORCYCLE	0	0	18	0.78
TRUCK AND CAMPER	0	0	10	0.41
PUBLIC BUS	0	1	9	0.37
MOTOR HOME	0	0	9	0.37
CAR AND TRAILER	0	0	5	0.21
LIGHT TRUCK/TRAILER	0	0	4	0.16
TOW TRUCK	0	0	3	0.13
SCHOOL BUS	0	0	2	0.08
ATV-TRAIL BIKE	0	0	1	0.04
GENERAL CONSTRUCTION	0	0	1	0.04
TRUCK CAMPER AND TRAILER	0	1	3	0.12
OTHER	0	4	12	0.49
UNKNOWN	0	1	1	0.04
TOTAL	4	131	2,441	100.00

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENSE

-FATAL ACCIDENTS ONLY-

VEHICLE TYPE	C A N A D A							U S A				
	BC	AL	SA	MA	ON	YT	OTHER CANADIAN	WA	OR	CA	ID	OTHER USA
PASSENGER CAR	31	2	0	0	0	0	0	0	0	1	0	0
*TRACTOR TRAILER	22	6	2	0	1	0	0	1	0	0	0	0
*SINGLE UNIT TRUCK, HEAVY	20	0	0	0	0	0	0	0	0	0	0	0
*SINGLE UNIT TRUCK, LIGHT	14	1	0	0	0	0	0	0	0	0	0	0
*LOGGING TRUCK AND POLE TRAILER	11	0	0	0	0	0	0	0	0	0	0	1
*TRACTOR TRAILER AND PUP	6	3	0	0	1	0	0	0	0	0	0	0
*HEAVY TRUCK/TRAILER	5	1	0	0	0	0	0	0	0	0	0	0
BICYCLE	4	0	0	0	0	0	0	0	0	0	0	0
MOTORHOME	1	0	0	1	0	0	0	0	0	0	0	0
MOTORCYCLE	1	0	0	0	0	0	0	0	0	0	0	0
TOTAL	115	13	2	1	2	0	0	1	0	1	0	1

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

cont'd...

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
VEHICLE TYPE BY PROVINCE OF DRIVER'S LICENCE

-FATAL ACCIDENTS ONLY-

cont'd ...

VEHICLE TYPE	FOREIGN DRIVER'S LICENCE	UNKNOWN	TOTAL	PERCENT OF TOTAL
PASSENGER CAR	0	2	36	25.53
*TRACTOR TRAILER	0	1	33	23.40
*SINGLE UNIT TRUCK, HEAVY	0	0	20	14.18
SINGLE UNIT TRUCK, LIGHT	0	1	17	12.06
*LOGGING TRUCK AND POLE TRAILER	0	0	11	7.80
*TRACTOR TRAILER AND PUP	0	1	11	7.80
*HEAVY TRUCK/TRAILER	0	0	6	4.26
BICYCLE	0	0	4	2.84
MOTORHOME	0	0	2	1.42
MOTORCYCLE	0	0	1	0.71
TOTAL	0	5	141	100.00

*NOTE: These vehicles are defined as weighing 10,900 kg or over.

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS
DRIVER AGE BY ACCIDENT TYPE

-HEAVY COMMERCIAL VEHICLE DRIVERS ONLY-

DRIVER AGE	ACCIDENT TYPE			TOTAL DRIVERS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
11 - 15	0	0	0	0	0.00
16	3	3	0	6	0.09
17	14	1	0	15	0.23
18	17	9	0	26	0.40
19	57	21	1	79	1.20
20	76	23	2	101	1.54
21 - 25	558	156	17	731	11.14
26 - 30	734	195	10	939	14.31
31 - 35	761	193	17	971	14.79
36 - 40	602	179	7	788	12.00
41 - 45	486	149	7	642	9.78
46 - 50	344	98	6	448	6.83
51 - 55	267	87	9	363	5.53
56 - 60	163	53	0	216	3.29
61 - 65	74	22	1	97	1.48
66 - 70	20	7	1	28	0.43
71 - 75	3	0	1	4	0.06
76 - 80	2	1	0	3	0.05
81 - 85	1	1	0	2	0.03
UNKNOWN	991	112	2	1,105	16.83
TOTAL	5,173	1,310	81	6,564	100.00

1988 HEAVY COMMERCIAL VEHICLE REGIDENTS

MAJOR CONTRIBUTING FACTORS BY DRIVER AGE
-PROPERTY DAMAGE ACCIDENTS ONLY-
-ALL DRIVERS/VEHICLES INVOLVED-

CONTRIBUTING FACTORS	D R I V E R A G E															
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40	41-50	51-60	61-70	OVER 70	UNKNOWN	TOTAL FACTORS	PERCENT OF TOTAL
DRIVING WITHOUT DUE CARE	0	5	4	8	11	17	67	64	105	63	35	23	17	47	466	12.07
BACKING UNSAFELY	0	0	1	3	5	9	46	68	105	75	33	17	1	48	411	10.65
WEATHER FAILING TO YIELD	0	0	4	0	6	7	34	42	77	60	25	11	2	8	276	7.15
RIGHT OF WAY	0	3	4	8	4	3	27	34	60	43	20	17	17	10	250	6.48
WILD ANIMAL FOLLOWING TOO CLOSELY	0	1	0	0	1	0	26	35	67	43	17	5	0	0	195	5.05
DRIVING AT UNSAFE SPEED	0	3	1	0	5	7	27	29	55	23	16	5	2	7	180	4.66
IMPROPER TURNING CUTTING IN	0	1	4	2	7	7	23	28	41	26	14	2	1	6	162	4.20
IMPROPER PASSING DRIVER INEXPERIENCE	0	1	0	2	2	1	19	16	51	25	17	4	5	14	157	4.07
ALCOHOL INVOLVEMENT	0	3	1	1	3	1	11	22	28	22	18	14	4	16	144	3.73
AVOIDING VEH/PED/CYCLE	0	2	4	4	1	5	16	14	24	17	3	5	3	4	102	2.64
ROAD MAINTENANCE/ CONSTRUCTION	0	4	7	5	8	6	20	15	13	6	5	0	1	1	91	2.36
VISIBILITY IMPAIRED INSECURE LOAD	0	0	0	2	3	1	14	11	23	7	5	2	1	5	74	1.92
DRIVING ON WRONG SIDE OF ROAD	0	0	0	0	0	1	8	14	20	14	8	1	2	4	72	1.86
OVERSIZE VEHICLE DRIVERLESS VEHICLE	0	0	0	0	1	4	10	7	26	13	7	0	0	0	68	1.76
IGNORING TRAFFIC CONTROL DEVICE	0	0	2	1	1	1	6	6	27	9	4	1	2	3	63	1.63
OTHER	0	0	0	2	0	0	5	13	14	13	7	1	0	7	62	1.60
TOTAL	2	24	39	44	79	84	476	559	1,053	654	341	144	66	295	3,860	100.00

NOTE: This report represents first contributing factors attributed to drivers only – pedestrians are not included. "OTHER" includes those factors with less than 45 occurrences, as well as unspecified factors.

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS

MAJOR CONTRIBUTING FACTORS BY DRIVER AGE

--PERSONAL INJURY ACCIDENTS ONLY--
 --ALL DRIVERS/VEHICLES INVOLVED--

CONTRIBUTING FACTORS	D R I V E R A G E													TOTAL FACTORS	PERCENT OF TOTAL	
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40	41-50	51-60	61-70	OVER 70			UNKNOWN
DRIVING WITHOUT DUE CARE	3	7	4	10	10	7	34	28	46	24	20	5	8	4	15.84	
DRIVING AT UNSAFE SPEED	0	2	3	3	5	3	32	30	44	26	14	6	2	0	12.82	
FOLLOWING TOO CLOSELY	0	1	1	2	4	6	18	19	28	18	5	1	0	4	8.07	
FAILING TO YIELD RIGHT OF WAY	0	1	1	2	0	3	10	13	19	11	13	11	8	1	7.01	
WEATHER	0	1	0	1	3	3	17	14	22	19	8	4	0	1	7.01	
ALCOHOL INVOLVEMENT	1	0	0	2	0	7	10	15	21	11	8	2	0	1	5.88	
IGNORING TRAFFIC CONTROL DEVICE	1	0	0	2	1	0	5	6	8	6	4	3	0	0	2.71	
DRIVING ON WRONG SIDE OF ROAD	0	0	0	1	2	1	3	2	9	5	4	0	4	1	2.41	
AVOIDING VEH/PED CYCLE	0	0	0	0	1	0	5	5	11	4	3	1	0	1	2.34	
IMPROPER TURNING	0	0	0	1	0	0	5	3	3	4	5	4	1	0	1.96	
DEFECTIVE BRAKES	0	0	0	0	1	0	7	2	5	5	4	0	0	1	1.89	
VISIBILITY IMPAIRED	0	0	1	0	1	0	3	8	8	0	1	1	0	2	1.89	
DRIVER INEXPERIENCE	0	1	1	3	1	3	6	2	4	1	1	0	1	0	1.81	
CUTTING IN	0	0	0	1	0	0	3	2	4	3	3	5	0	1	1.66	
INSECURE LOAD	0	0	0	0	0	0	3	3	9	3	2	1	0	1	1.66	
BACKING UNSAFELY	0	0	0	0	0	0	5	1	5	3	2	1	0	1	1.36	
IMPROPER PASSING	0	0	1	0	0	1	3	2	3	2	2	1	0	1	1.28	
ROAD MAINTENANCE/CONSTRUCTION	0	0	0	0	0	0	2	3	6	3	2	0	0	0	1.21	
WILD ANIMAL	0	0	0	0	0	0	2	2	6	2	1	0	0	0	0.98	
OTHER	1	3	2	2	4	3	31	41	72	52	33	7	4	13	20.21	
TOTAL	6	16	14	30	33	37	204	201	333	202	135	53	29	33	1,326	100.00

NOTE: This report represents first contributing factors attributed to drivers only - pedestrians are not included. "OTHER" includes those factors with less than 12 occurrences, as well as unspecified factors.

MAJOR CONTRIBUTING FACTORS BY DRIVER AGE
-FATAL ACCIDENTS ONLY-
-ALL DRIVERS/VEHICLES INVOLVED-

NOTE: This report represents first contributing factors attributed to drivers only - pedestrians are not included. "OTHER" includes unspecified factors.

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS

MAJOR CONTRIBUTING FACTORS BY DRIVER AGE
-PROPERTY DAMAGE ACCIDENTS ONLY-
-HEAVY COMMERCIAL DRIVERS/VEHICLES ONLY-

CONTRIBUTING FACTORS	D R I V E R A G E														TOTAL	PERCENT OF TOTAL
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40	41-50	51-60	61-70	OVER 70	UNKNOWN		
BACKING UNSAFELY DRIVING WITHOUT DUE CARE	0	0	1	2	4	8	42	62	94	69	29	11	1	42	365	13.66
WILD ANIMAL	0	0	0	1	3	6	42	44	76	47	27	7	2	39	294	11.01
WEATHER	0	1	0	0	1	0	26	35	67	43	17	5	0	0	195	7.30
IMPROPER TURNING	0	0	0	0	4	2	22	25	51	48	17	8	0	6	183	6.85
FOLLOWING TOO CLOSELY	0	0	0	0	2	1	14	13	47	19	13	4	1	13	127	4.75
FAILING TO YIELD	0	0	0	0	2	5	15	23	44	17	13	1	0	6	126	4.72
RIGHT OF WAY	0	0	1	0	2	2	10	16	33	22	10	3	0	7	106	3.97
DRIVING AT UNSAFE SPEED	0	0	1	1	3	1	15	19	30	15	10	0	0	4	99	3.71
CUTTING IN	0	0	0	0	0	0	8	14	18	13	9	7	0	12	81	3.03
INSECURE LOAD	0	0	0	1	0	0	5	12	13	13	7	0	0	6	57	2.13
OVERSIZE VEHICLE	0	0	0	0	0	1	3	3	21	16	6	1	0	1	52	1.95
AVOID VEH/PED/CYCLE	0	0	0	0	0	0	5	11	16	11	3	0	1	4	51	1.91
DRIVER INEXPERIENCE	0	0	2	1	3	2	14	10	9	3	2	0	0	1	48	1.80
ROAD MAINTENANCE/ CONSTRUCTION	0	0	0	0	0	2	6	5	21	9	5	0	0	0	48	1.80
OTHER	0	0	4	2	14	11	92	113	260	150	79	17	1	96	839	31.41
TOTAL	0	2	9	8	38	41	319	405	800	495	247	64	6	237	2,671	100.00

NOTE: This report represents first contributing factors attributed to drivers only - pedestrians are not included. "OTHER" includes those factors with less than 45 occurrences, as well as unspecified factors.

1988 HEAVY COMMERCIAL VEHICLE ACCIDENTS

MAJOR CONTRIBUTING FACTORS BY DRIVER AGE
-PERSONAL INJURY ACCIDENTS ONLY-
-HEAVY COMMERCIAL DRIVERS/VEHICLES ONLY-

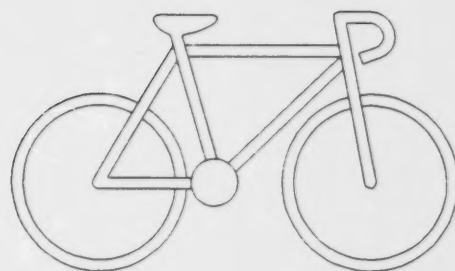
CONTRIBUTING FACTORS	D R I V E R A G E													TOTAL FACTORS	PERCENT OF TOTAL		
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40	41-50	51-60	61-70	OVER 70			UNKNOWN	
		0	0	0	2	6	2	15	18	30	20	13					2
DRIVING WITHOUT DUE CARE	0	0	0	2	2	6	2	15	18	30	20	13	2	0	3	111	14.50
DRIVING AT UNSAFE SPEED	0	0	0	2	2	2	3	20	20	31	17	10	3	0	0	108	14.12
FOLLOWING TOO CLOSELY	0	0	1	1	4	5	2	15	16	21	15	5	1	0	3	87	11.37
WEATHER	0	0	0	0	1	2	7	7	7	16	16	5	0	0	1	55	7.19
FAILING TO YIELD	0	0	0	1	0	1	1	9	5	11	6	6	4	0	1	44	5.75
RIGHT OF WAY	0	0	0	0	1	0	0	5	1	5	5	4	0	0	1	22	2.88
DEFECTIVE BRAKES	0	0	0	0	0	0	0	3	3	9	3	2	1	0	1	22	2.88
INSECURE LOAD	0	0	0	0	0	0	2	1	1	10	3	2	0	0	1	20	2.61
ALCOHOL INVOLVEMENT	0	0	0	0	0	0	0	1	5	5	3	2	1	0	0	17	2.22
AVOIDING VEH/PED/ CYCLIST	0	0	0	0	0	0	0	1	3	2	3	3	3	0	0	15	1.96
IMPROPER TURNING	0	0	0	0	0	0	0	4	1	5	3	0	0	0	1	14	1.83
BACKING UNSAFELY	0	0	0	0	0	0	0	1	2	5	3	1	1	0	0	14	1.83
IGNORING TRAFFIC	0	0	0	0	1	0	0	1	2	5	3	1	1	0	0	14	1.83
CONTROL DEVICE	0	0	0	0	0	0	0	1	2	4	2	2	0	1	1	13	1.70
DRIVING ON WRONG SIDE OF ROAD	0	0	0	0	0	0	0	1	2	6	3	2	0	0	0	13	1.70
ROAD MAINTENANCE/ CONSTRUCTION	0	0	0	0	0	0	0	1	1	4	0	1	0	0	1	12	1.57
VISIBILITY IMPAIRED	0	0	0	0	0	0	0	2	4	4	0	1	0	0	0	12	1.57
WILD ANIMAL	0	0	0	0	0	0	0	2	2	5	2	1	0	0	0	12	1.57
OTHER	0	2	0	1	2	2	2	18	28	57	40	22	4	0	10	186	24.31
TOTAL	0	2	1	7	17	17	17	106	119	226	144	81	20	1	24	765	100.00

NOTE: This report represents first contributing factors attributed to drivers only – pedestrians are not included. "OTHER" includes those factors with less than 10 occurrences, as well as unspecified factors.

CONTRIBUTING FACTORS	DRIVER AGE											TOTAL FACTORS	PERCENT OF TOTAL			
	UNDER 16	16	17	18	19	20	21-25	26-30	31-40	41-50	51-60			61-70	OVER 70	UNKNOWN
DRIVING WITHOUT DUE CARE	0	0	0	0	0	1	3	1	4	0	0	0	0	0	9	30.00
UNSAFE SPEED	0	0	0	0	0	0	2	0	1	1	2	0	0	0	6	20.00
ALCOHOL INVOLVEMENT	0	0	0	0	0	0	1	0	2	0	0	0	0	0	3	10.00
AVOIDING VEH/PED/ CYCLIST	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	6.67
DEFECTIVE BRAKES	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2	6.67
IGNORING TRAFFIC CONTROL DEVICE	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	6.67
DRIVER INEXPERIENCE	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	3.33
IMPROPER PASSING	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	3.33
IMPROPER TURNING	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	3.33
INSECURE LOAD	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	3.33
OTHER	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	6.67
TOTAL	0	0	0	0	1	1	10	5	9	2	2	0	0	0	30	100.00

16.19

SECTION 17



BICYCLE ACCIDENTS

1988 BICYCLE ACCIDENTS

Cycles included in this report include both bicycles and tricycles.

A bicycle accident is reportable in British Columbia if it results in injury or death or aggregate property damage of \$25. At least one motor vehicle must be involved.

There were 2,291 bicycle accidents in 1988. Bicyclists injured totalled 1,920; 25 persons were killed riding cycles.

1988 BICYCLE ACCIDENTS

MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE - ALL DRIVERS/VEHICLES INVOLVED -

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	55	403	5	463	21.90
FAILING TO YIELD RIGHT OF WAY	32	394	3	429	20.29
DRIVING ON WRONG SIDE OF ROAD	11	106	2	119	5.63
IGNORING TRAFFIC CONTROL DEVICE	7	96	1	104	4.92
CUTTING IN	5	48	0	53	2.51
VISIBILITY IMPAIRED	3	48	0	51	2.41
DRIVER INEXPERIENCE	5	44	0	49	2.32
ALCOHOL INVOLVEMENT	5	41	2	48	2.27
DRIVING AT UNSAFE SPEED	4	40	3	47	2.22
IMPROPER PASSING	4	42	0	46	2.18
AVOIDING VEH/PED/CYCLE	2	40	1	43	2.03
IMPROPER TURNING	3	37	2	42	1.99
HEADLIGHTS DEFECTIVE/OUT	7	28	0	35	1.66
WEATHER CONDITION	3	32	0	35	1.66
PEDESTRIAN ERROR/CONFUSION	3	17	1	21	0.99
FOLLOWING TOO CLOSELY	7	13	0	20	0.95
BACKING UNSAFELY	3	13	1	17	0.80
FAILING TO SIGNAL	0	13	0	13	0.61
SUNLIGHT GLARE	1	11	0	12	0.57
DEFECTIVE BRAKES	0	9	0	9	0.43
ROAD/INTERSECTION DESIGN	2	7	0	9	0.43
OBSTRUCTION/DEBRIS ON ROAD	0	7	0	7	0.33
PAVEMENT CONDITION	0	4	0	4	0.19
OTHER	49	386	3	438	20.71
TOTAL	211	1,879	24	2,114	100.00

NOTE: "OTHER" includes factors with less than 4 occurrences.

1988 BICYCLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY ACCIDENT TYPE
- CYCLISTS ONLY-

CONTRIBUTING FACTORS	ACCIDENT TYPE			TOTAL FACTORS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRIVING WITHOUT DUE CARE	24	238	4	266	23.19
FAILING TO YIELD RIGHT OF WAY	11	130	3	144	12.55
DRIVING ON WRONG SIDE OF ROAD	11	101	0	112	9.76
IGNORING TRAFFIC CONTROL DEVICE	4	69	0	73	6.36
DRIVER INEXPERIENCE	4	37	0	41	3.57
DEFECTIVE HEADLIGHTS	7	28	0	35	3.05
DRIVING AT UNSAFE SPEED	3	28	0	31	2.70
CUTTING IN	2	27	0	29	2.53
IMPROPER PASSING	4	25	0	29	2.53
ALCOHOL INVOLVEMENT	4	19	1	24	2.09
IMPROPER TURNING	1	18	2	21	1.83
PEDESTRIAN ERROR/CONFUSION	3	15	1	19	1.66
FOLLOWING TOO CLOSELY	3	11	0	14	1.22
AVOIDING VEH/PED/CYCLE	1	12	0	13	1.13
WEATHER CONDITION	1	11	0	12	1.05
DEFECTIVE BRAKES	0	8	0	8	0.71
FAILING TO SIGNAL	0	6	0	6	0.52
VISIBILITY IMPAIRED	0	5	0	5	0.44
OTHER	29	233	3	265	23.11
TOTAL	112	1,021	14	1,147	100.00

NOTE: "OTHER" includes factors with less than 5 occurrences.

1988 BICYCLE ACCIDENTS
PRIMARY ACCIDENT OCCURRENCE BY ACCIDENT TYPE

PRIMARY ACCIDENT OCCURRENCE	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
RIGHT ANGLE COLLISION 	76	571	8	655	28.59
LEFT TURN - ACROSS ONCOMING TRAFFIC 	22	142	2	166	7.25
REAR END 	21	126	5	152	6.63
OVERTAKING 	14	93	1	108	4.71
SIDE SWIPE 	9	73	2	84	3.67
LEFT TURN - HEAD ON 	5	48	0	53	2.31
RIGHT TURN - HEAD ON 	8	44	1	53	2.31
HEAD ON 	12	35	0	47	2.05
RIGHT TURN - REAR END 	6	27	0	33	1.44
RIGHT TURN - SAME DIRECTION 	1	22	0	23	1.00
BACKING UP 	8	13	1	22	0.96
LEFT TURN - ONE WAY 	0	12	0	12	0.52
RIGHT TURN - OPPOSITE DIRECTION 	2	8	0	10	0.44
OFF ROAD - RIGHT 	1	7	1	9	0.39
OFF ROAD - LEFT 	1	3	0	4	0.17
ONE WAY STREET 	0	4	0	4	0.17
OTHER	149	586	4	739	32.26
UNKNOWN	20	97	0	117	5.11
TOTAL	355	1,911	25	2,291	100.00

1988 BICYCLE ACCIDENTS
PRE-COLLISION ACTION BY ACCIDENT TYPE

PRE-COLLISION ACTION	ACCIDENT TYPE			TOTAL ACTIONS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
GOING STRAIGHT AHEAD	376	2,277	31	2,684	57.86
MAKING LEFT TURN	66	449	4	519	11.19
MAKING RIGHT TURN	79	405	3	487	10.50
PARKED LEGALLY	48	101	0	149	3.21
STOPPED IN TRAFFIC	26	57	1	84	1.81
CHANGING LANES	12	60	0	72	1.55
SLOWING OR STOPPING	6	48	1	55	1.19
STARTING IN TRAFFIC	8	45	0	53	1.14
OVERTAKING	11	32	0	43	.93
SWERVING	5	34	3	42	0.91
BACKING	16	24	1	41	0.88
STARTING FROM PARKED POSITION	2	26	1	29	0.63
ENTERING PARKED POSITION	7	15	0	22	0.47
SKIDDING	2	18	1	21	0.45
PARKED ILLEGALLY	5	6	0	11	0.24
MAKING U TURN	2	7	0	9	0.19
MERGING	0	9	0	9	0.19
AVOIDING OBJECT ON ROAD	0	2	0	2	0.04
N/A	0	2	0	2	0.04
SPINNING	0	2	0	2	0.04
OTHER	23	124	5	152	3.28
UNKNOWN	23	128	0	151	3.26
TOTAL	717	3,871	51	4,639	100.00

NOTE: This table represents the pre-collision actions of all vehicles involved in the accident.

1988 BICYCLE ACCIDENTS
ACCIDENT LOCATION BY ACCIDENT TYPE

ACCIDENT LOCATION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
AT INTERSECTION	147	951	11	1,109	48.41
BETWEEN INTERSECTIONS	110	570	10	690	30.12
ROAD/DRIVEWAY INTERSECTION	51	265	3	319	13.92
PARKING LOT	28	41	1	70	3.06
BRIDGE	1	10	0	11	0.48
OFF HIGHWAY	6	5	0	11	0.48
ENTRANCE INTERSECTION	2	7	0	9	0.39
EXIT RAMP	1	6	0	7	0.31
OTHER	0	19	0	19	0.82
UNKNOWN	9	37	0	46	2.01
TOTAL	355	1,911	25	2,291	100.00

17.5

1988 BICYCLE ACCIDENTS
ROADWAY SURFACE CONDITION BY ACCIDENT TYPE

SURFACE CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DRY	294	1,596	24	1,914	83.54
WET	53	292	1	346	15.10
ICY	0	4	0	4	0.17
SLUSH	0	1	0	1	0.04
SNOW	1	0	0	1	0.04
UNKNOWN	7	18	0	25	1.09
TOTAL	355	1,911	25	2,291	100.00

17.6

1988 BICYCLE ACCIDENTS
LIGHTING CONDITION BY ACCIDENT TYPE

LIGHTING CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DAYLIGHT	283	1,574	21	1,878	81.97
DARK/SOME ILLUMINATION	28	130	1	159	6.94
DARK/FULL ILLUMINATION	19	76	1	96	4.19
DUSK	16	70	0	86	3.75
DARK/NO ILLUMINATION	2	26	2	30	1.31
DAWN	3	12	0	15	0.65
UNKNOWN	4	22	0	26	1.13
OTHER	0	1	0	1	0.04
TOTAL	355	1,911	25	2,291	100.00

17.7

1988 BICYCLE ACCIDENTS
WEATHER CONDITION BY ACCIDENT TYPE

WEATHER CONDITION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
CLEAR	238	1,199	21	1,458	63.64
CLOUDY	73	496	4	573	25.01
RAINING	37	188	0	225	9.82
FOG	0	2	0	2	0.09
SNOW/SLEET	1	1	0	2	0.09
UNKNOWN	6	25	0	31	1.35
TOTAL	355	1,911	25	2,291	100.00

17.8

1988 BICYCLE ACCIDENTS
ACCIDENT HOUR BY ACCIDENT TYPE

ACCIDENT HOUR	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
Mid. - 1 am	3	9	0	12	0.52
1 am - 2 am	0	11	0	11	0.48
2 am - 3 am	0	8	1	9	0.39
3 am - 4 am	2	2	0	4	0.17
4 am - 5 am	0	3	0	3	0.13
5 am - 6 am	0	1	0	1	0.04
6 am - 7 am	3	19	0	22	0.96
7 am - 8 am	10	41	0	51	2.23
8 am - 9 am	10	106	2	118	5.15
9 am - 10 am	5	49	0	54	2.36
10 am - 11 am	15	79	0	94	4.10
11 am - Noon	24	84	2	110	4.80
Noon - 1 pm	19	119	2	140	6.11
1 pm - 2 pm	8	114	0	122	5.33
2 pm - 3 pm	31	130	0	161	7.03
3 pm - 4 pm	48	208	5	261	11.39
4 pm - 5 pm	37	254	2	293	12.79
5 pm - 6 pm	46	204	4	254	11.09
6 pm - 7 pm	24	141	1	166	7.25
7 pm - 8 pm	22	119	3	144	6.29
8 pm - 9 pm	13	70	1	84	3.67
9 pm - 10 pm	14	62	1	77	3.36
10 pm - 11 pm	4	25	0	29	1.27
11 pm - Mid.	6	22	1	29	1.27
UNKNOWN	11	31	0	42	1.83
TOTAL	355	1,911	25	2,291	100.00

1988 BICYCLE ACCIDENTS
BICYCLE DRIVER'S AGE BY ACCIDENT TYPE

DRIVER AGE	ACCIDENT TYPE			TOTAL DRIVERS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
1 - 10	21	236	8	265	11.86
11 - 15	43	405	7	455	20.34
16	10	84	0	94	4.20
17	10	62	1	73	3.26
18	8	76	0	84	3.75
19	9	53	0	62	2.77
20	7	58	0	65	2.90
21 - 25	41	304	4	349	15.59
26 - 30	34	204	0	238	10.63
31 - 35	14	97	0	111	4.96
36 - 40	20	55	0	75	3.35
41 - 45	6	44	1	51	2.28
46 - 50	1	20	0	21	.94
51 - 55	2	18	1	21	
56 - 60	1	14	0	15	
61 - 65	1	17	1	19	0.85
66 - 70	0	6	1	7	0.31
71 - 75	0	5	1	6	0.27
76 - 80	1	4	0	5	0.22
81 - 85	0	1	0	1	0.04
OVER 85	0	0	0	0	0.00
UNKNOWN	102	119	0	221	9.87
TOTAL	331	1,882	25	2,238	100.00

BICYCLE DRIVERS INVOLVED IN ACCIDENTS BY ACCIDENT TYPE AND BICYCLE DRIVER'S AGE

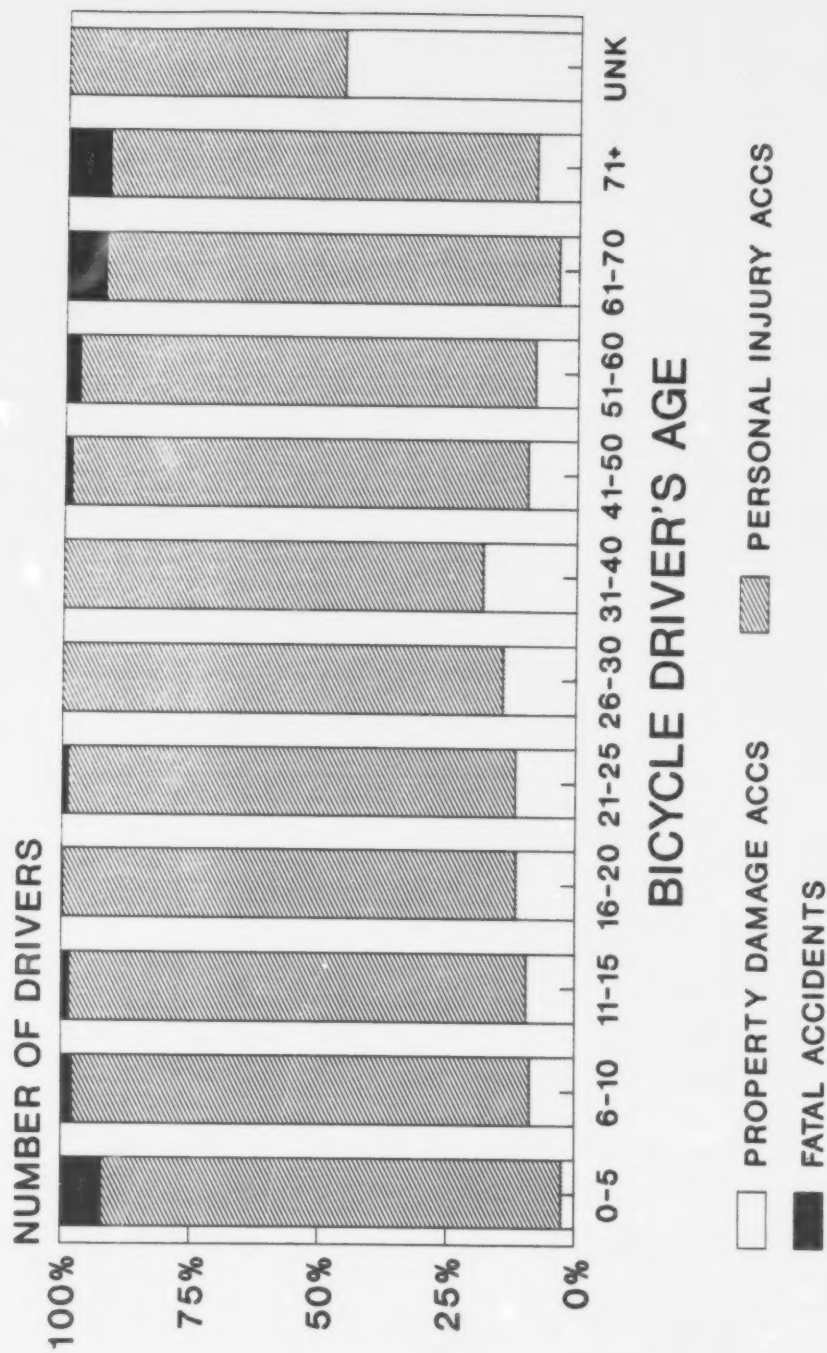


fig. 38

1988 BICYCLE ACCIDENTS

VICTIMS INJURED BY AGE AND SEX BY ACCIDENT HOUR

ACCIDENT HOUR	UNKNOWN		1-5		6-10		11-15		16-20		21-25		26-30		31-40		41-50		51-60		61-70		OVER 70		TOTAL INJURED	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Mid.- 1 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	
1 am- 2 am	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	3	
2 am- 3 am	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	
3 am- 4 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
4 am- 5 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
5 am- 6 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6 am- 7 am	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
7 am- 8 am	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
8 am- 9 am	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	6	
9 am- 10 am	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	10	
10 am- 11 am	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	33	
11 am- Noon	2	3	2	0	2	1	3	8	12	10	11	13	10	5	4	3	2	0	1	1	0	0	0	35	58	
Noon - 1 pm	4	6	1	0	1	1	3	17	18	12	11	15	9	2	7	1	3	0	0	0	0	0	0	61	24	
1 pm- 2 pm	4	1	2	1	2	1	3	19	12	10	11	14	7	4	8	1	5	3	0	0	0	0	0	86	32	
2 pm- 3 pm	3	1	1	1	1	1	3	25	14	10	13	12	5	10	3	3	5	0	2	0	0	0	0	90	26	
3 pm- 4 pm	5	1	2	1	2	1	9	40	29	25	24	18	5	10	12	4	3	0	0	0	0	0	0	94	36	
4 pm- 5 pm	9	2	6	0	6	0	13	52	32	25	24	24	7	17	13	3	3	1	1	1	1	1	0	172	36	
5 pm- 6 pm	6	0	2	0	15	0	11	46	19	16	14	14	8	9	12	2	5	0	3	2	0	0	0	191	64	
6 pm- 7 pm	8	1	3	0	16	2	24	23	14	10	16	16	5	10	11	4	6	0	3	2	0	0	0	146	60	
7 pm- 8 pm	4	2	0	1	10	5	10	16	13	16	7	7	2	10	6	4	3	1	0	0	0	0	0	109	32	
8 pm- 9 pm	0	0	2	0	3	1	11	7	15	15	9	9	1	7	6	1	3	1	0	0	0	0	0	86	34	
9 pm- 10 pm	2	0	1	0	10	0	10	4	10	3	5	6	2	2	2	0	1	0	0	0	0	0	0	49	21	
10 pm- 11 pm	0	0	0	0	5	0	5	2	7	0	0	1	1	1	3	0	0	0	0	0	0	0	0	49	13	
11 pm- Mid.	0	0	0	0	2	0	2	2	3	1	6	6	0	0	0	0	0	0	0	0	0	0	0	21	4	
UNKNOWN	2	2	0	0	0	0	5	5	5	5	7	7	1	1	1	2	1	1	1	0	0	0	0	18	5	
TOTAL	61	22	34	8	151	61	332	102	252	102	225	94	150	63	127	30	61	7	24	9	11	8	10	2	1,438	508

NOTE: TOTAL includes bicycle drivers (1,864), passengers (56), and those persons "hanging on" (26) to a bicycle.

1988 BICYCLE ACCIDENTS

VICTIMS KILLED BY AGE AND SEX BY ACCIDENT HOUR

ACCIDENT HOUR	UNKNOWN		1-5		6-10		11-15		16-20		21-25		26-30		31-40		41-50		51-60		61-70		OVER 70		TOTAL KILLED	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Mid.- 1 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 am- 2 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 am- 3 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 am- 4 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 am- 5 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 am- 6 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 am- 7 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 am- 8 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 am- 9 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 am- 10 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 am- 11 am	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 am- Noon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Noon - 1 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 pm- 2 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 pm- 3 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 pm- 4 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 pm- 5 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 pm- 6 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 pm- 7 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 pm- 8 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 pm- 9 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 pm- 10 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 pm- 11 pm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 pm- Mid.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	2	1	4	1	5	2	1	0	2	2	0	0	0	0	1	0	1	0	2	0	1	0	19	6

NOTE: All fatal victims are bicycle drivers.

1988 BICYCLE ACCIDENTS
CYCLISTS INVOLVED BY VICTIM TYPE

VICTIM TYPE	BICYCLE DRIVERS	BICYCLE PASSENGERS	TOTAL CYCLISTS	PERCENT OF TOTAL
NOT INJURED	349	29	378	14.74
INJURED	1,864	56	1,920	84.50
KILLED	25	0	25	
TOTAL	2,238	85	2,323	100.00

1988 BICYCLE ACCIDENTS MAJOR CONTRIBUTING FACTORS BY BICYCLE DRIVER'S AGE

CONTRIBUTING FACTORS	DRIVER AGE													
	1-5	6-10	11-15	16	17	18	19	20	21-25	26-30	31-35	36-40	41-45	46-50
DRIVING WITHOUT DUE CARE	6	51	84	11	8	10	5	6	26	10	3	9	3	1
FAILING TO YIELD	3	31	38	3	5	3	5	2	21	6	8	2	2	1
DRIVING ON WRONG SIDE OF ROAD	3	12	34	7	7	2	6	3	14	8	5	1	0	1
IGNORING TRAFFIC CONTROL DEVICE	1	16	15	3	4	2	1	5	7	4	5	0	2	1
DRIVER INEXPERIENCE	2	15	12	3	2	0	0	0	0	2	2	1	0	0
DEFECTIVE HEADLIGHTS	0	0	5	3	3	2	2	3	6	5	2	0	1	0
UNSAFE SPEED	0	1	8	1	0	3	2	0	6	2	1	1	0	0
CUTTING IN	1	7	10	1	0	2	0	0	4	0	1	1	0	0
IMPROPER PASSING	0	0	3	1	1	2	2	0	6	4	3	1	2	0
ALCOHOL INVOLVEMENT	0	0	0	0	1	2	0	1	7	8	0	2	0	0
IMPROPER TURNING	0	4	5	4	0	0	1	1	4	0	0	0	0	0
PEDESTRIAN ERROR/CONFUSION	1	10	5	1	0	0	0	0	0	0	0	1	0	0
FOLLOWING TOO CLOSELY	0	0	0	0	1	2	1	1	3	4	1	1	0	0
AVOIDING VEH/PED/CYCLE	0	1	2	0	1	0	0	0	7	1	0	0	0	0
WEATHER CONDITION	0	0	2	1	1	2	1	0	2	1	1	0	0	1
DEFECTIVE BRAKES	0	3	2	0	0	0	0	0	0	3	0	0	0	0
FAILING TO SIGNAL	1	1	2	0	0	0	0	0	0	1	0	0	0	0
VISIBILITY IMPAIRED	0	0	2	1	0	0	0	0	0	1	0	0	0	0
ROAD INTERSECTION DESIGN	0	0	1	0	0	0	1	0	0	1	0	0	0	0
MEDICATION (LEGAL)	0	1	0	0	0	1	0	0	0	0	0	0	0	1
OBSTRUCTION/DEBRIS ON ROAD	0	0	2	0	0	0	0	0	0	1	0	0	0	0
PAVEMENT CONDITION	0	0	0	0	0	0	0	1	2	0	0	0	0	0
OTHER	3	22	71	13	6	8	6	9	31	22	11	8	8	5
TOTAL	21	175	303	57	40	41	33	32	146	84	43	28	18	11

NOTE: This report represents first contributing factors attributed to bicycle drivers only. "OTHER" includes those factors with less than 2 occurrences, as well as unspecified factors. cont'd...

cont'd... 1988 BICYCLE ACCIDENTS
MAJOR CONTRIBUTING FACTORS BY BICYCLE DRIVER'S AGE

CONTRIBUTING FACTORS	D R I V E R A G E											PERCENT OF TOTAL	
	51-55	56-60	61-65	66-70	71-75	76-80	81-85	85-90	91-95	OVER 95	UNKNOWN		TOTAL FACTORS
DRIVING WITHOUT DUE CARE	3	2	1	1	0	2	0	0	0	0	24	266	23.19
FAILING TO YIELD	0	1	3	0	0	0	0	0	0	0	10	144	12.56
DRIVING ON WRONG SIDE OF ROAD	2	1	0	0	0	0	0	0	0	0	6	112	9.77
IGNORING TRAFFIC CONTROL DEVICE	1	0	0	1	1	1	0	0	0	0	3	73	6.37
DRIVER INEXPERIENCE	0	0	1	0	0	0	0	0	0	0	1	41	3.57
DEFECTIVE HEADLIGHTS	0	0	0	0	0	0	0	0	0	0	3	35	3.05
UNSAFE SPEED	0	0	0	0	0	0	0	0	0	0	6	31	2.70
CUTTING IN	0	0	0	0	0	0	0	0	0	0	2	29	2.53
IMPROPER PASSING	0	0	0	0	0	0	0	0	0	0	4	29	2.53
ALCOHOL INVOLVEMENT	0	0	0	1	0	0	0	0	0	0	2	24	2.09
IMPROPER TURNING	0	0	0	0	1	0	0	0	0	0	1	21	1.83
PEDESTRIAN ERROR/CONFUSION	0	0	0	0	1	0	0	0	0	0	0	19	1.65
FOLLOWING TOO CLOSELY	0	0	0	0	0	0	0	0	0	0	0	14	1.22
AVOIDING VEH/PED/CYCLE	0	0	0	1	0	0	0	0	0	0	0	13	1.13
WEATHER CONDITION	0	0	0	0	0	0	0	0	0	0	0	12	1.05
DEFECTIVE BRAKES	0	0	0	0	0	0	0	0	0	0	0	8	0.70
FAILING TO SIGNAL	0	0	2	0	0	0	0	0	0	0	0	6	0.52
VISIBILITY IMPAIRED	0	0	0	0	0	0	0	0	0	0	0	5	0.44
ROAD INTERSECTION DESIGN	0	0	0	0	0	0	0	0	0	0	0	3	0.26
MEDICATION (LEGAL)	0	0	0	0	0	0	0	0	0	0	0	3	0.26
OBSTRUCTION/DEBRIS ON ROAD	0	0	0	0	0	0	0	0	0	0	0	3	0.26
PAVEMENT CONDITION	0	0	0	0	0	0	0	0	0	0	0	3	0.26
OTHER	2	3	4	0	1	0	0	0	0	0	20	253	22.06
TOTAL	8	7	11	4	4	3	0	0	0	0	82	1,147	100.00

NOTE: This report represents first contributing factors attributed to bicycle drivers only. "OTHER" includes those factors with less than 2 occurrences, as well as unspecified factors.

SECTION 18



POLICE JURISDICTION REPORTS ACCIDENT & VICTIM SUMMARIES



1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

KELOWNA SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
ARMSTRONG	188	120	63.83	65	34.57	3	1.60	91	5
ENDERBY	171	109	63.94	58	33.92	4	2.34	85	4
FALKLAND	82	52	63.41	28	34.15	2	2.44	42	2
KELOWNA (MUN.)	2,408	1,725	71.64	676	28.07	7	0.29	927	8
KELOWNA (RURAL)	876	611	69.75	250	28.54	15	1.71	364	18
KEREMEOS	157	96	61.15	58	36.94	3	1.91	91	3
LUMBY	156	108	69.23	47	30.13	1	0.64	69	1
OLIVER	186	144	77.42	40	21.50	2	1.08	55	2
OSOYOOS	197	144	73.09	52	26.40	1	0.51	78	1
PENTICTON (MUN.)	980	751	76.63	225	22.96	4	0.41	314	4
PENTICTON (RURAL)	281	211	75.09	67	23.84	3	1.07	109	4
PRINCETON	518	381	73.55	133	25.68	4	0.77	220	5
REVELSTOKE	516	399	77.33	111	21.51	6	1.16	183	7
SALMON ARM (MUN.)	347	247	71.18	99	28.53	1	0.29	161	1
SALMON ARM (RURAL)	152	105	69.08	42	27.63	5	3.29	67	5
SICAMOUS	195	148	75.90	47	24.10	0	0.00	78	0
SUMMERLAND	143	114	79.72	28	19.58	1	0.07	40	1
VERNON (MUN.)	922	712	77.22	208	22.56	2	0.22	285	2
VERNON (RURAL)	468	319	68.16	145	30.98	4	0.86	214	4
TOTAL	8,943	6,496	72.64	2,379	26.60	68	0.76	3,473	77

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

KAMLOOPS SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
ALEXIS CREEK	120	79	65.84	37	30.83	4	3.33	57	10
ANAHIM LAKE	69	48	69.57	21	30.43	0	0.00	22	0
ASHCROFT	149	100	67.11	44	29.53	5	3.36	63	6
BARRIERE	134	89	66.42	45	33.58	0	0.00	63	0
CHASE	294	199	67.69	94	31.97	1	0.34	142	1
CLEARWATER	281	191	67.97	85	30.25	5	1.78	145	6
CLINTON	149	93	62.42	52	34.90	4	2.68	80	6
KAMLOOPS (MUN.)	2,180	1,581	72.52	596	27.34	3	0.14	846	3
KAMLOOPS (RURAL)	256	160	62.50	93	36.30	3	1.20	148	3
LILLOOET	240	167	69.58	72	30.00	1	0.42	104	2
LOGAN LAKE	85	52	61.18	31	36.47	2	2.35	51	3
LYTTON	143	107	74.82	34	23.78	2	1.40	58	3
MERRITT (MUN.)	181	139	76.80	42	23.20	0	0.00	70	0
MERRITT (RURAL)	363	244	67.22	115	31.68	4	1.10	190	5
100 MILE HOUSE	398	300	75.38	94	23.62	4	1.00	150	4
SPENCES BRIDGE	30	18	60.00	11	36.67	1	3.33	17	2
VALEMOUNT	174	128	73.56	42	24.14	4	2.30	66	4
WILLIAMS LAKE (MUN.)	579	483	83.42	95	16.41	1	0.17	132	1
WILLIAMS LAKE (RURAL)	453	308	67.99	137	30.24	8	1.77	229	8
TOTAL	6,278	4,486	71.46	1,740	27.71	52	0.83	2,633	67

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

NELSON SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
CASTLEGAR (MUN.)	222	174	78.38	48	21.62	0	0.00	67	0
CASTLEGAR (RURAL)	176	127	72.16	46	26.14	3	1.70	83	3
CRANBROOK (MUN.)	521	453	86.95	66	12.67	2	0.38	91	2
CRANBROOK (RURAL)	377	297	78.78	79	20.95	1	0.27	112	2
CRESCENT VALLEY	6	4	66.67	2	33.33	0	0.00	2	0
CRESTON	398	312	78.39	82	20.60	4	1.01	119	4
ELKFORD	69	55	79.71	14	20.29	0	0.00	27	0
FERNIE	343	284	82.80	58	16.91	1	0.29	71	2
FIELD	108	84	77.78	21	19.44	3	2.78	40	3
FRUITVALE	83	61	73.49	22	26.51	0	0.00	26	0
GOLDEN	480	365	76.04	108	22.50	7	1.46	209	7
GRAND FORKS	348	297	85.34	46	13.22	5	1.44	70	5
INVERMERE	265	215	81.13	50	18.87	0	0.00	81	0
KASLO	68	49	72.06	18	26.47	1	1.47	21	1
KIMBERLEY (MUN.)	134	115	85.82	19	14.18	0	0.00	22	0
KIMBERLEY (RURAL)	121	93	76.86	26	21.49	2	1.65	40	2
MIDWAY	151	112	74.17	39	25.83	0	0.00	64	0
NAKUSP	176	139	78.98	36	20.45	1	0.57	50	1
NELSON	300	226	75.34	73	24.33	1	0.33	106	1
NEW DENVER	80	61	76.25	19	23.75	0	0.00	29	0
RADIUM	208	164	78.85	41	19.71	3	1.44	59	4
ROSSLAND	139	113	81.29	26	18.71	0	0.00	33	0
SALMO	139	112	80.58	26	18.70	1	0.72	34	1
SPARWOOD	198	156	78.79	39	19.70	3	1.51	72	3
TRAIL (MUN.)	280	229	81.79	51	18.21	0	0.00	65	0
TRAIL (RURAL)	121	93	76.86	27	22.31	1	0.83	36	1
TOTAL	5,511	4,390	79.66	1,082	19.63	39	0.71	1,629	42

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

PRINCE GEORGE SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
BURNS LAKE	281	211	75.09	68	24.20	2	0.71	91	2
CHETWYND	252	197	78.18	53	21.03	2	0.79	70	3
DAWSON CREEK (MUN.)	410	348	84.88	62	15.12	0	0.00	82	0
DAWSON CREEK (RURAL)	310	239	77.10	69	22.26	2	0.64	106	2
FORT NELSON	259	206	79.54	51	19.69	2	0.77	80	2
FORT ST. JAMES	153	119	77.78	32	20.91	2	1.31	66	3
FORT ST. JOHN (MUN.)	546	463	84.80	81	14.83	2	0.37	113	2
FORT ST. JOHN (RURAL)	459	352	76.69	98	21.35	9	1.96	150	10
FRASER LAKE	139	103	74.10	33	23.74	3	2.16	64	6
HUDSON HOPE	79	63	79.75	16	20.25	0	0.00	26	0
MACKENZIE (MUN.)	149	126	84.56	22	14.77	1	0.67	29	1
MACKENZIE (RURAL)	135	98	72.60	37	27.40	0	0.00	52	0
MCKRIDE	156	105	67.31	49	31.41	2	1.28	76	3
PRINCE GEORGE (MUN.)	2,744	2,210	80.54	522	19.02	12	0.44	751	13
PRINCE GEORGE (RURAL)	533	353	66.23	165	30.96	15	2.81	262	22
QUESNEL (MUN.)	449	342	76.17	106	23.61	1	0.22	144	1
QUESNEL (RURAL)	452	311	68.81	131	28.98	10	2.21	183	14
TUMBLER RIDGE	134	106	79.10	26	19.40	2	1.50	34	2
VANDERHOOF	224	162	72.32	61	27.23	1	0.45	104	1
WATSON LAKE/TESLIN (YUKON)	41	24	58.54	17	41.46	0	0.00	35	0
WELLS	27	18	66.67	9	33.33	0	0.00	11	0
TOTAL	7,932	6,156	77.62	1,708	21.53	68	0.86	2,529	87

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

PRINCE RUPERT SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
ATLIN/HAINES JCT (YUKON)	20	15	75.00	5	25.00	0	0.00	6	0
BELLA BELLA	6	3	50.00	3	50.00	0	0.00	3	0
BELLA COOLA	69	55	79.71	11	15.94	3	4.35	23	3
CASSIAR	51	35	68.63	15	29.41	1	1.96	21	1
DEASE LAKE/TELEGRAPH CREEK	56	39	69.64	17	30.36	0	0.00	21	0
GRANISLE	24	20	83.33	3	12.50	1	4.17	2	1
HAZELTON	302	222	73.51	76	25.17	4	1.32	115	4
HOUSTON	194	139	71.65	51	26.29	4	2.06	88	5
KITIMAT (MUN.)	204	154	75.49	50	24.51	0	0.00	68	0
KITIMAT (RURAL)	44	31	70.46	12	27.27	1	2.27	19	1
MASSETT	78	64	82.05	13	16.67	1	1.28	30	4
NEW AIYANSH	64	55	85.94	8	12.50	1	1.56	14	1
PRINCE RUPERT (MUN.)	623	528	84.75	91	14.61	4	0.64	121	6
PRINCE RUPERT (RURAL)	100	66	66.00	33	33.00	1	1.00	56	1
QUEEN CHARLOTTE CITY	83	66	79.52	16	19.28	1	1.20	31	1
SMITHERS	417	334	80.10	80	19.18	3	0.72	125	3
STEWART	119	90	75.63	27	22.69	2	1.68	38	2
TERRACE (MUN.)	455	382	83.96	73	16.04	0	0.00	93	0
TERRACE (RURAL)	319	225	70.53	92	28.84	2	0.63	142	2
TOTAL	3,228	2,523	78.14	676	20.94	29	0.93	1,017	35

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

VANCOUVER SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
DEAS ISLAND FWY PATROL (UNIT A)	710	460	64.79	245	34.51	5	0.70	372	6
GIBSONS	255	175	68.63	78	30.59	2	0.78	116	2
LANGLEY CITY	1,183	882	74.56	298	25.19	3	0.25	436	3
LANGLEY TOWNSHIP	1,669	1,172	70.22	491	29.42	6	0.36	710	6
MAPLE RIDGE (MUN.)	1,493	1,169	78.30	319	21.37	5	0.33	465	5
MAPLE RIDGE (RURAL)	324	227	70.06	94	29.01	3	0.93	158	4
MARINE SERVICES (BOWEN IS.)	30	22	73.33	7	23.33	1	3.33	10	1
PEMBERTON	177	110	62.15	67	37.85	0	0.00	98	0
PORT MANN FWY PATROL (UNIT B)	1,505	1,000	66.44	501	33.29	4	0.27	740	4
SECHLT	274	196	71.53	74	27.01	4	1.46	102	4
SQUAMISH (MUN.)	371	260	70.08	104	28.03	7	1.89	163	11
SQUAMISH (RURAL)	239	154	64.44	82	34.30	3	1.26	135	3
UNIVERSITY	406	309	76.11	96	23.64	1	0.25	136	1
WHISTLER	435	357	82.07	77	17.70	1	0.23	108	1
WHITE ROCK	505	385	76.24	119	23.56	1	0.20	173	1
TOTAL	9,576	6,878	71.83	2,652	27.69	46	0.48	3,922	52

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

CHILLIWACK SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
ABBOTSFORD (MUN.)	709	523	73.76	185	26.10	1	0.14	299	1
ABBOTSFORD (RURAL)	16	11	68.75	5	31.25	0	0.00	7	0
AGASSIZ	224	146	65.18	76	33.93	2	0.89	111	2
BOSTON BAR	97	73	75.26	22	22.68	2	2.06	33	3
CHILLIWACK (MUN.)	1,412	1,058	74.93	350	24.79	4	0.28	466	4
CHILLIWACK (RURAL)	144	83	57.64	60	41.67	1	0.69	106	1
HOPE	687	502	73.07	176	25.62	9	1.31	293	12
MISSION (MUN.)	506	368	72.73	135	26.68	3	0.59	211	3
MISSION (RURAL)	254	187	73.63	66	25.98	1	0.39	87	1
SUMAS FWY PATROL (UNIT C)	321	180	56.07	137	42.68	4	1.25	213	5
TOTAL	4,370	3,131	71.65	1,212	27.73	27	0.62	1,826	32

BURNABY SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
BURNABY	7,947	5,986	75.33	1,946	24.48	15	0.19	2,672	15
TOTAL	7,947	5,986	75.33	1,946	24.48	15	0.19	2,672	15

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

COQUITLAM SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
COQUITLAM (MUN.)	2,765	2,083	75.33	679	24.56	3	0.11	929	3
COQUITLAM (RURAL)	106	69	65.09	33	31.13	4	3.78	56	4
PORT COQUITLAM	970	681	70.21	288	26.69	1	0.10	402	1
TOTAL	3,841	2,833	73.76	1,000	26.03	8	0.21	1,387	8

NORTH VANCOUVER SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
NORTH VANCOUVER CITY	1,792	1,379	76.95	410	22.88	3	0.17	529	4
NORTH VANCOUVER DIST.	1,816	1,358	74.78	454	25.00	4	0.22	630	4
TOTAL	3,608	2,737	75.86	864	23.95	7	0.19	1,159	8

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

RICHMOND SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
RICHMOND	5,174	3,831	74.04	1,331	25.72	12	0.23	1,801	13
TOTAL	5,174	3,831	74.04	1,331	25.72	12	0.23	1,801	13

18.11

SURREY SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
SURREY	7,548	5,290	70.99	2,237	29.63	21	0.28	3,379	25
TOTAL	7,548	5,290	70.99	2,237	29.63	21	0.28	3,379	25

18.12

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

VICTORIA SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
CHEMAINUS	187	131	70.05	54	28.88	2	1.07	78	2
COLWOOD	1,118	777	69.50	337	30.14	4	0.36	451	5
DUNCAN	553	367	66.37	179	32.37	7	1.26	266	8
DUNCAN (N. COWICHAN)	305	204	66.88	100	32.79	1	0.33	160	1
GABRIOLA ISLAND	79	53	67.09	26	32.91	0	0.00	35	0
GANGES	191	117	61.26	74	38.74	0	0.00	109	0
LADYSMITH	295	214	72.54	79	26.78	2	0.68	127	0
LAKE COWICHAN	152	117	76.97	35	23.03	0	0.00	49	0
NANAIMO (MUN.)	2,213	1,640	74.10	568	25.67	5	0.23	829	5
NANAIMO (RURAL)	222	153	68.92	68	30.63	1	0.45	90	1
PENDER ISLAND	42	25	59.52	17	40.48	0	0.00	23	0
SHANNIGAN LAKE	292	193	66.10	95	32.53	4	1.37	127	4
SIDNEY (MUN.)	429	301	70.16	128	29.84	0	0.00	195	0
SIDNEY (RURAL)	23	13	56.52	10	43.48	0	0.00	16	0
SOOKE	294	193	65.65	98	33.33	3	1.02	143	3
TOTAL	6,395	4,498	70.34	1,868	29.21	29	0.45	2,698	31

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

COURTENAY SUBDIVISION RCMP

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
ALERT BAY	41	34	82.93	7	17.07	0	0.00	10	0
CAMPBELL RIVER (MUN.)	875	701	80.11	172	19.66	2	0.23	253	2
CAMPBELL RIVER (RURAL)	351	242	68.95	105	29.91	4	1.14	170	4
COMOX	128	99	77.34	29	22.66	0	0.00	42	0
COURTENAY (MUN.)	518	388	74.90	130	25.10	0	0.00	178	0
COURTENAY (RURAL)	669	460	68.76	204	30.49	5	0.75	296	5
GOLD RIVER	128	96	75.00	32	25.00	0	0.00	41	0
PARKSVILLE	825	607	73.58	210	25.45	8	0.97	316	8
PORT ALBERNI (MUN.)	609	488	80.13	120	19.70	1	0.17	159	1
PORT ALBERNI (RURAL)	306	215	70.26	90	29.41	1	0.33	129	1
PORT ALICE	45	32	71.11	13	28.89	0	0.00	18	0
PORT HARDY	270	200	74.07	69	25.56	1	0.37	90	4
PORT MCNEILL	199	152	76.38	43	21.61	4	2.01	69	4
POWELL RIVER (MUN.)	320	244	76.25	76	23.75	0	0.00	110	0
POWELL RIVER (RURAL)	118	75	63.55	42	35.60	1	0.85	60	1
QUADRA	56	41	73.21	15	26.79	0	0.00	20	0
SAYWARD	145	97	66.90	47	32.41	1	0.69	84	1
TAHSIS	45	32	71.11	12	26.67	1	2.22	22	1
TEXADA ISLAND	24	16	66.67	8	33.33	0	0.00	10	0
TOFINO	62	48	77.42	13	20.97	1	1.61	19	1
UCLUELET	131	90	68.70	40	30.54	1	0.76	57	1
TOTAL	5,865	4,357	74.29	1,477	25.18	31	0.53	2,153	34

1988 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

MUNICIPAL FORCES

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
CENTRAL SAANICH	235	158	67.23	76	32.34	1	0.43	100	1
DELTA	2,286	1,788	78.22	497	21.74	1	0.04	693	2
ESQUIMALT	437	325	74.37	110	25.17	2	0.46	139	2
MATSQUI	1,932	1,313	67.96	610	31.57	9	0.47	894	11
NELSON	278	247	88.85	30	10.79	1	0.36	37	1
NEW WESTMINSTER	2,573	1,985	77.14	584	22.70	4	0.16	808	4
OAK BAY	314	242	77.07	71	22.61	1	0.32	90	1
PORT MOODY	651	469	72.04	180	27.65	2	0.31	276	2
SAANICH	2,348	1,681	71.59	661	28.15	6	0.26	912	6
VANCOUVER	30,708	26,033	84.78	4,627	15.07	48	0.15	6,136	51
VICTORIA	3,076	2,120	68.92	952	30.95	4	0.13	1,271	4
WEST VANCOUVER	1,586	1,226	77.30	356	22.45	4	0.25	518	4
TOTAL	46,424	37,587	80.97	8,754	18.85	83	0.18	11,874	89

1987 TRAFFIC ACCIDENTS BY POLICE JURISDICTION

OTHER POLICE FORCES

POLICE JURISDICTION	TOTAL ACCIDENTS	PROPERTY DAMAGE ACCIDENTS		PERSONAL INJURY ACCIDENTS		FATAL ACCIDENTS		VICTIMS INJURED	VICTIMS KILLED
		NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION	NUMBER	% OF TOTAL/LOCATION		
PORTS CANADA POLICE	30	24	80.00	6	20.00	0	0.00	6	0
TOTAL	30	24	80.00	6	20.00	0	0.00	6	0

SECTION 19



**POLICE JURISDICTION REPORTS
HIT & RUN ACCIDENT SUMMARIES**

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

KELOWNA SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
ARMSTRONG	14	0	0	14	1.34
ENDERBY	10	2	0	12	1.15
FALKLAND	3	0	0	3	0.29
KELOWNA (MUN.)	339	26	0	365	34.96
KELOWNA (RURAL)	60	5	0	65	6.25
KEREMEOS	3	1	0	4	0.38
LUMBY	6	1	0	7	0.67
OLIVER	28	2	0	30	2.87
OSOYOOS	16	1	0	17	1.63
PENTICTON (MUN.)	171	13	0	184	17.62
PENTICTON (RURAL)	24	6	0	30	2.87
PRINCETON	25	3	0	28	2.68
REVELSTOKE	47	2	0	49	4.69
SALMON ARM (MUN.)	36	2	0	38	3.64
SALMON ARM (RURAL)	6	2	0	8	0.76
SICAMOUS	15	0	0	15	1.44
SUMMERLAND (MUN.)	11	0	0	11	1.05
VERNON (MUN.)	130	8	0	138	13.22
VERNON (RURAL)	23	3	0	26	2.49
TOTAL	967	77	0	1,044	100.00

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

KAMLOOPS SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
ALEXIS CREEK	6	0	1	7	1.07
ANAHIM LAKE	1	0	0	1	0.15
ASHCROFT	13	2	0	15	2.29
BARRIERE	9	2	0	11	1.68
CHASE	19	1	0	20	3.05
CLEARWATER	20	0	0	20	3.05
CLINTON	7	0	0	7	1.07
KAMLOOPS (MUN.)	278	31	0	309	47.17
KAMLOOPS (RURAL)	12	1	0	13	1.99
LILLOOET	20	1	0	21	3.21
LOGAN LAKE	5	0	0	5	0.76
LYTTON	2	0	0	2	0.31
MERRITT (MUN.)	34	2	0	36	5.50
MERRITT (RURAL)	4	0	0	4	0.61
100 MILE HOUSE	29	3	0	32	4.88
VALEMOUNT	7	0	0	7	1.07
WILLIAMS LAKE (MUN.)	129	3	0	132	20.15
WILLIAMS LAKE (RURAL)	11	2	0	13	1.99
TOTAL	606	48	1	655	100.00

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

NELSON SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
CASTLEGAR (MUN.)	41	1	0	42	9.07
CASTLEGAR (RURAL)	5	1	0	6	1.30
CRANBROOK (MUN.)	88	4	0	92	19.87
CRANBROOK (RURAL)	7	1	0	8	1.73
CRESCENT VALLEY	1	0	0	1	0.22
CRESTON	28	1	0	29	6.26
ELKFORD	8	0	0	8	1.73
FERNIE	44	0	0	44	9.50
FIELD	1	0	0	1	0.22
FRUITVALE	5	0	0	5	1.08
GOLDEN	27	1	0	28	6.05
GRAND FORKS	25	0	0	25	5.40
INVERMERE	20	0	0	20	4.32
KASLO	4	0	0	4	0.86
KIMBERLEY (MUN.)	16	2	0	18	3.89
KIMBERLEY (RURAL)	3	0	0	3	0.65
MIDWAY	6	0	0	6	1.30
NAKUSP	8	0	0	8	1.73
NELSON	12	0	0	12	2.59
NEW DENVER	5	0	0	5	1.08
RADIUM	6	1	0	7	1.51
ROSSLAND	12	3	0	15	3.24
SALMO	1	0	0	1	0.21
SPARWOOD	12	0	0	12	2.59
TRAIL (MUN.)	58	3	0	61	13.17
TRAIL (RURAL)	2	0	0	2	0.43
TOTAL	445	18	0	463	100.00

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

PRINCE GEORGE SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
BURNS LAKE	14	0	0	14	1.50
CHETWYND	14	0	0	14	1.50
DAWSON CREEK (MUN.)	80	2	0	82	8.80
DAWSON CREEK (RURAL)	8	0	0	8	0.86
FORT NELSON	34	2	0	36	3.86
FORT ST. JAMES	20	1	0	21	2.25
FORT ST. JOHN (MUN.)	78	4	0	82	8.80
FORT ST. JOHN (RURAL)	19	1	0	20	2.15
FRASER LAKE	7	1	0	8	0.86
HUDSON HOPE	4	0	0	4	0.43
MACKENZIE (MUN.)	23	1	0	24	2.58
MACKENZIE (RURAL)	4	0	0	4	0.43
MCBRIDE	12	0	0	12	1.28
PRINCE GEORGE CITY	422	24	0	446	47.85
PRINCE GEORGE (RURAL)	14	2	0	16	1.72
QUESNEL (MUN.)	78	8	0	86	9.23
QUESNEL (RURAL)	17	1	0	18	1.93
TUMBLER RIDGE	16	0	0	16	1.72
VANDERHOOF	18	1	0	19	2.03
WELLS	2	0	0	2	0.22
TOTAL	884	48	0	932	100.00

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

PRINCE RUPERT SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
ATLIN; HAINES JCT (Yukon)	2	0	0	2	0.40
BELLA COOLA	3	0	0	3	0.60
CASSIAR	8	0	0	8	1.59
DEASE LAKE/TELEGRAPH CRK	2	0	0	2	0.40
GRANISLE	6	0	0	6	1.19
HAZLETON	32	1	0	33	6.55
HOUSTON	13	0	0	13	2.58
KITIMAT (MUN.)	41	1	0	42	8.33
KITIMAT (RURAL)	2	0	0	2	0.40
MASSET	3	0	0	3	0.60
NEW AIYANSH	4	0	0	4	0.79
PRINCE RUPERT (MUN.)	145	8	0	153	30.35
PRINCE RUPERT (RURAL)	6	0	0	6	1.19
QUEEN CHARLOTTE CITY	5	0	0	5	0.99
SMITHERS	73	2	0	75	14.88
STEWART	19	0	0	19	3.77
TERRACE (MUN.)	96	2	0	98	19.44
TERRACE (RURAL)	29	1	0	30	5.95
TOTAL	489	15	0	504	100.00

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION
VANCOUVER SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
DEAS ISLAND FREEWAY PATROL (UNIT A)	33	10	0	43	3.13
GIBSONS	34	3	0	37	2.69
LANGLEY CITY	213	13	0	226	16.48
LANGLEY TOWNSHIP	182	15	1	198	14.41
MAPLE RIDGE (MUN.)	260	21	0	281	20.45
MAPLE RIDGE (RURAL)	43	7	0	50	3.64
MARINE SERVICES-BOWEN IS.	3	1	0	4	0.29
PEMBERTON	16	0	0	16	1.16
PORT MANN FREEWAY PATROL (UNIT B)	73	26	0	99	7.20
SECHELT	37	2	0	39	2.84
SQUAMISH (MUN.)	42	3	0	45	3.27
SQUAMISH (RURAL)	10	0	0	10	0.73
UNIVERSITY	93	4	0	97	7.06
WHISTLER	85	3	0	88	6.40
WHITE ROCK	133	8	0	141	10.25
TOTAL	1,257	116	1	1,374	100.00

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

CHILLIWACK SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
ABBOTSFORD (MUN.)	93	4	0	97	17.83
ABBOTSFORD (RURAL)	1	0	0	1	0.18
AGASSIZ	20	1	0	21	3.86
BOSTON BAR	3	0	0	3	0.55
CHILLIWACK (MUN.)	226	19	0	245	45.04
CHILLIWACK (RURAL)	14	2	0	16	2.94
HOPE	24	4	0	28	5.15
MISSION (MUN.)	75	9	0	84	15.44
MISSION (RURAL)	40	2	0	42	7.72
SUMAS FREEWAY PATROL (UNIT C)	5	2	0	7	1.29
TOTAL	501	43	0	544	100.00

19.7

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

BURNABY SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
BURNABY	1,236	96	0	1,332	100.00
TOTAL	1,236	96	0	1,332	100.00

19.8

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

COQUITLAM SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
COQUITLAM (MUN.)	489	24	0	513	75.00
COQUITLAM (RURAL)	12	1	1	14	2.05
PORT COQUITLAM	140	17	0	157	22.95
TOTAL	641	42	1	684	100.00

19.9

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

NORTH VANCOUVER SUBDIVISION RCMP

POLICE JURISDICITON	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
NORTH VANCOUVER CITY	375	19	0	394	53.97
NORTH VANCOUVER DISTRICT	309	26	1	336	46.03
TOTAL	684	45	1	730	100.00

19.10

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

RICHMOND SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
RICHMOND	861	51	1	913	100.00
TOTAL	861	51	1	913	100.00

19.11

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

SURREY SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
SURREY	960	138	1	1,099	100.00
TOTAL	960	138	1	1,099	100.00

19.12

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

VICTORIA SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
CHEMAINUS	19	2	0	21	2.76
COLWOOD	114	12	0	126	16.57
DUNCAN	49	4	0	53	6.97
DUNCAN (COWICHAN)	22	2	0	24	3.16
GABRIOLA ISLAND	2	1	0	3	0.39
GANGES	13	2	0	15	1.97
LADYSMITH	28	3	0	31	4.07
LAKE COWICHAN	10	1	0	11	1.48
NANAIMO (MUN.)	336	24	1	361	47.50
NANAIMO (RURAL)	14	1	0	15	1.97
PENDER ISLAND	5	0	0	5	0.66
SHAWNIGAN LAKE	12	0	0	12	1.58
SIDNEY (MUN.)	50	2	0	52	6.84
SIDNEY (RURAL)	2	0	0	2	0.26
SOOKE	24	4	1	29	3.82
TOTAL	700	58	2	760	100.00

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

COURTENAY SUBDIVISION RCMP

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
ALERT BAY	9	0	0	9	1.16
CAMPBELL RIVER (MUN.)	155	8	0	163	21.14
CAMPBELL RIVER (RURAL)	14	4	0	18	2.33
COMOX	17	0	0	17	2.20
COURTENAY (MUN.)	108	7	0	115	14.92
COURTENAY (RURAL)	49	6	0	55	7.13
GOLD RIVER	11	0	0	11	1.43
PARKSVILLE	59	7	0	66	8.56
PORT ALBERNI (MUN.)	116	5	0	121	15.69
PORT ALBERNI (RURAL)	14	6	0	20	2.59
PORT ALICE	3	0	0	3	0.39
PORT HARDY	34	4	0	38	4.93
PORT MCNEILL	16	0	0	16	2.08
POWELL RIVER (MUN.)	65	2	0	67	8.69
POWELL RIVER (RURAL)	10	1	0	11	1.43
QUADRA ISLAND	10	0	0	10	1.30
SAYWARD	2	0	0	2	0.26
TAHSIS	3	0	0	3	0.39
TEXADA ISLAND	1	0	0	1	0.13
TOFINO	14	0	0	14	1.82
UCLUELET	11	0	0	11	1.43
TOTAL	721	50	0	771	100.00

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION
MUNICIPAL FORCES

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
CENTRAL SAANICH	24	8	0	32	0.33
DELTA	452	26	0	478	4.87
ESQUIMALT	88	9	0	97	0.99
MATSQUI	256	26	0	282	2.87
NELSON	53	0	0	53	0.54
NEW WESTMINSTER	460	41	0	501	5.11
OAK BAY	37	2	0	39	0.40
PORT MOODY	115	7	0	122	1.24
SAANICH	297	21	1	319	3.25
VANCOUVER CITY	6,638	321	3	6,962	70.93
VICTORIA CITY	517	79	0	596	6.07
WEST VANCOUVER	325	9	0	334	3.40
TOTAL	9,262	549	4	9,815	100.00

1988 HIT & RUN ACCIDENTS BY POLICE JURISDICTION

OTHER POLICE FORCES

POLICE JURISDICTION	ACCIDENT TYPE			TOTAL ACCIDENTS	PERCENT OF TOTAL
	PROPERTY DAMAGE	PERSONAL INJURY	FATAL		
C.F.B. ESQUILMALT	25	0	0	25	80.64
PORTS CANADA POLICE	6	0	0	6	19.35
TOTAL	31	0	0	31	100.00